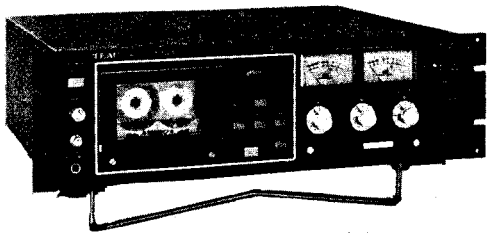
83

TEAC®

Rack



SERVICE MANUAL

C-1 MKII

Stereo Cassette Deck

Effective: November, 1979 B90100

5704002700

83

1 SPECIFICATIONS AND SERVICE DATA

SPECIFICATIONS

Track System 4-track, 2-channel stereo
Heads 3: Erase, record & playback
Type of Tape Cassette tape, C-60 and C-90 (Philips type)
Tape Speed 4.8 cm/s (1-7/8 ips)
Input (level and impedance)
MIC: Specified input level; −57dB (1.09mV)/10 kohms
Min. input level; −67 dB (346μV)
LINE IN: Specified input level; −9 dB (275 mV)/50 kohms
Min. input level; −19 dB (86.9 mV)
Outputs (level and load impedance)
OUTPUT: Specified output level; −5dB (436mV)/50 kohms
Max. output level; +1 dB (0.869 V)
Headphones: Specified output level; −15.7 dB (127 mV) 8 ohms
Equalization
METAL & Co (CrO_2): 3180μs + 70μs
NORMAL: 3180μs + 120μs
Head Configuration
1/2-track, 1-channel erase head
1/4-track, 2-channel dual-gap record and playback heads
Motor 3: 1 Phase locked loop servo controlled DC capstan motor, 2 DC coreless reel motors
Bias Frequency 100kHz
Operation Position Horizontal
Power Requirements
100/117/220/240V AC, 50/60Hz, 39W (General Export Model)
117V AC, 60 Hz, 39W (U.S.A./Canada Model)
220V AC, 50Hz, 39W (Europe Model)
240V AC, 50Hz, 39W (U.K./Australia Model)
Weight 14.5kg (32 lbs.) net

Dimensions

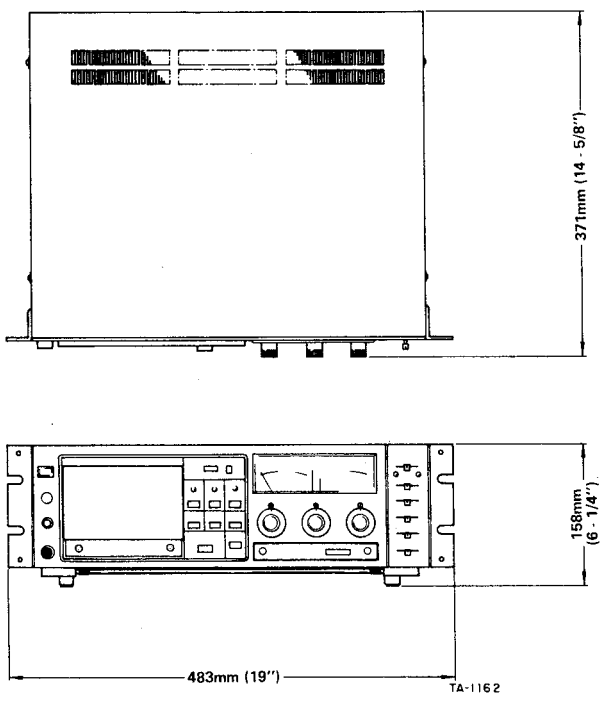


Fig. 1-1

SERVICE DATA

MECHANICAL

Tape Speed Deviation 3,000Hz ±30 Hz
Tape Speed Drift 15Hz
Wow and Flutter
Playback: 0.065% (WRMS)
0.12% (RMS)
Record/Playback: 0.15% (RMS)
Pinch Roller Pressure
Take-up: 400g ~ 500g (14.1oz ~ 17.6 oz)
Supply: 300g ~ 380g (10.6oz ~ 13.4 oz)
Reel Torque
Take-up: 45 ~ 65 g-cm (0.62 ~ 0.90 oz-inch)
Supply: 9 ~ 11 g-cm (0.12 ~ 0.15 oz-inch)
F.F./REW: 90 ~ 160 g-cm (1.2 ~ 2.2 oz-inch)
Fast Wind Time
85 seconds or less for MTT-501 (C-60)

ELECTRICAL

Frequency Response

Playback	40 Hz ~ 10 kHz	±2 dB
	14 kHz	+2, −3 dB
Overall	31.5 Hz	+2, −4 dB
	63 Hz ~ 10 kHz	±2 dB
	16 kHz	+2, −4 dB (NORMAL)
	18 kHz	+2, −4 dB (METAL, Co(CrO_2))

Signal-to-noise Ratio

Playback	METAL, Co(CrO_2),	52 dB min.
	NORMAL,	48 dB min.
Overall	METAL/Co(CrO_2),	48 dB min.
	NORMAL,	45 dB min.

S/N is improved by 5 dB at 1 kHz and 10dB above 5kHz when Dolby NR* is used.
Erase Efficiency 65dB min. at 1kHz (measured with input 10dB higher than the specified input level)
Channel Separation 35dB min. at 1kHz
Adjacent Track Crosstalk 40dB min. at 125Hz
Total Harmonic Distortion 2.0% or less with 3 types of tapes

- Improvements may result in Specifications and Service Data changes.
- Value of "dB" in the Data refers to 0dB (0.775V), except where specified.

* Noise reduction circuit made under license from Dolby Laboratories. The word "Dolby" and the Double-D symbol are trademarks of Dolby Laboratories.

CAUTION

⚠Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the TEAC Parts List and ensure exact replacement.

2 PARTS LOCATION

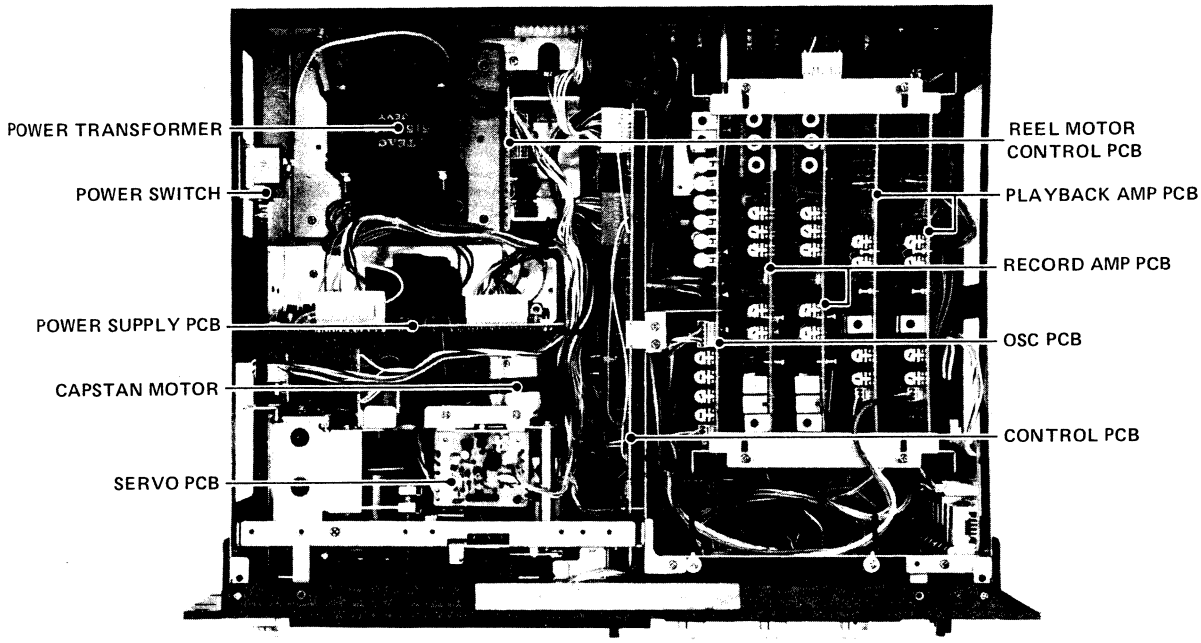


Fig. 2-1

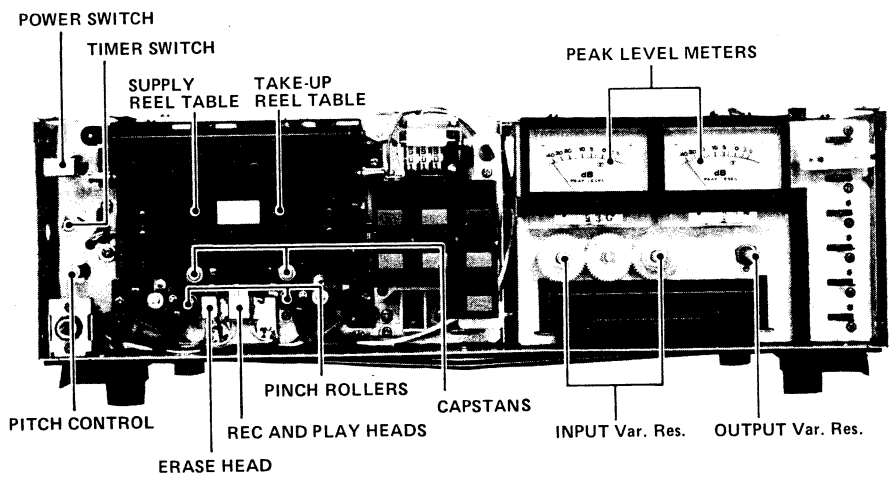


Fig. 2-2

3 CASE AND FRONT PANEL REMOVAL

Disassemble in number-order

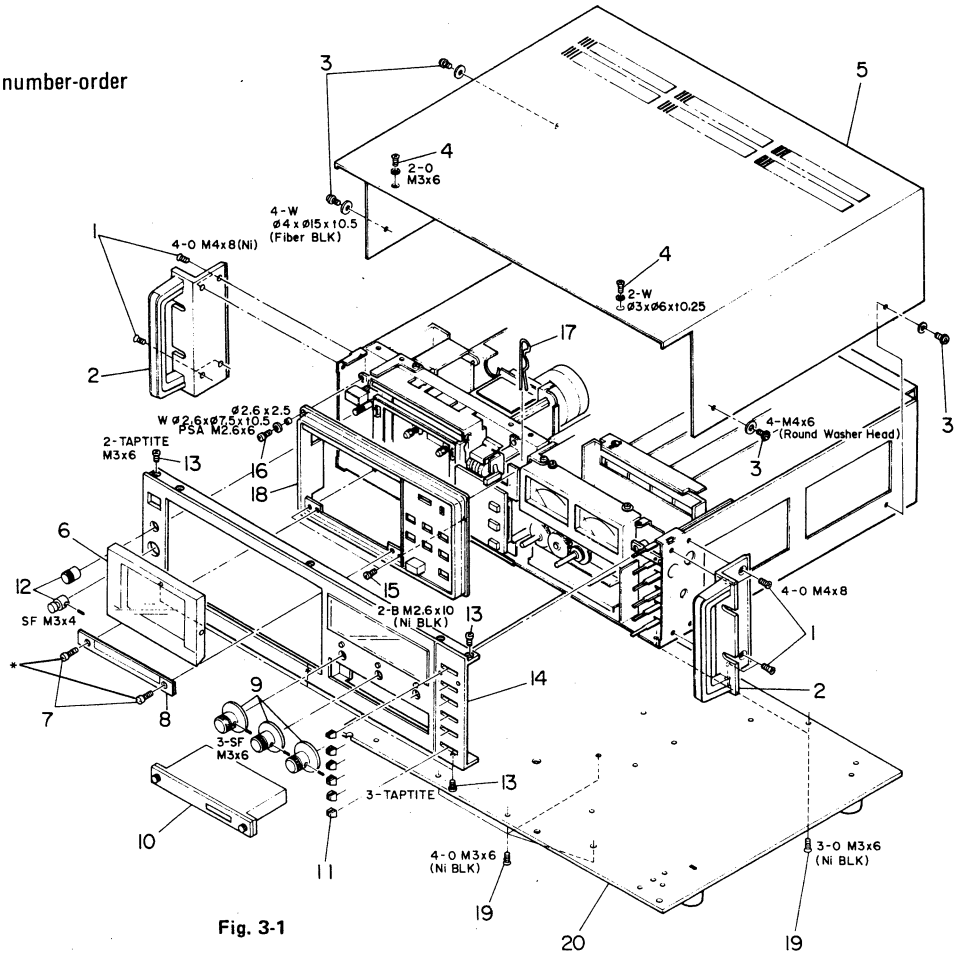
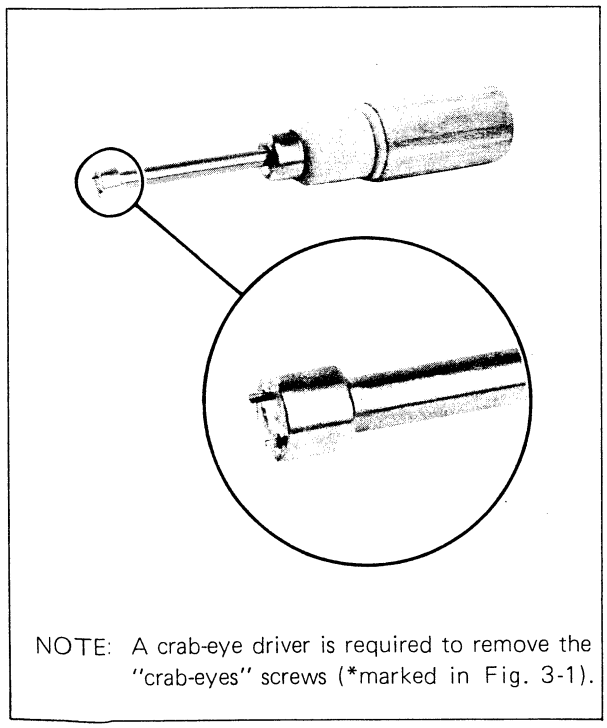
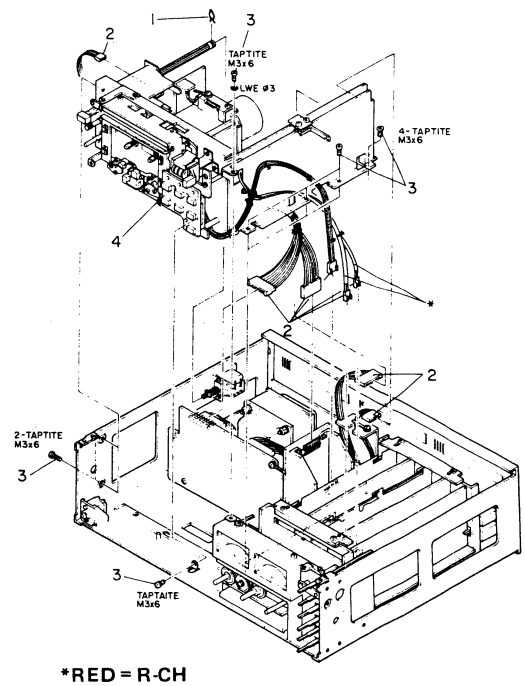


Fig. 3-1



NOTE: A crab-eye driver is required to remove the "crab-eyes" screws (*marked in Fig. 3-1).

Fig. 3-2 Crab-eye driver



*RED = R-CH
WHT = L-CH

Fig. 3-3

4 MECHANICAL ADJUSTMENTS AND CHECKS

4-1 CASSETTE HOLDER TIMING

1. Insert any standard cassette tape into the cassette holder and push the holder into the lock-closed position.
2. Turn the set screw so that at the moment the cassette pressure lever clamps down onto the cassette, the lock cam will snap down onto the lock plate.
3. Secure the screw with a drop of locking paint after completing the above procedures.

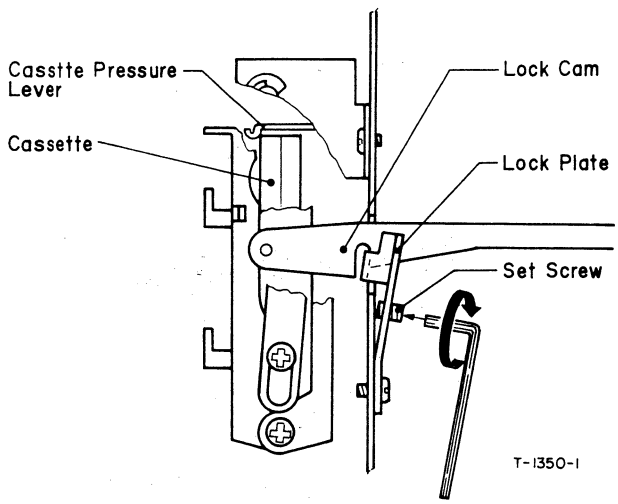


Fig. 4-1

4-2 HEAD SOLENOID POSITION

1. Close the empty cassette holder and press the cassette pressure arm.
2. Set in the play mode.
3. Adjust the solenoid position (Fig. 4-4) so that, when the flange at the top of the slide lever (B) is raised, using the finger nail, a clearance is obtained as shown.

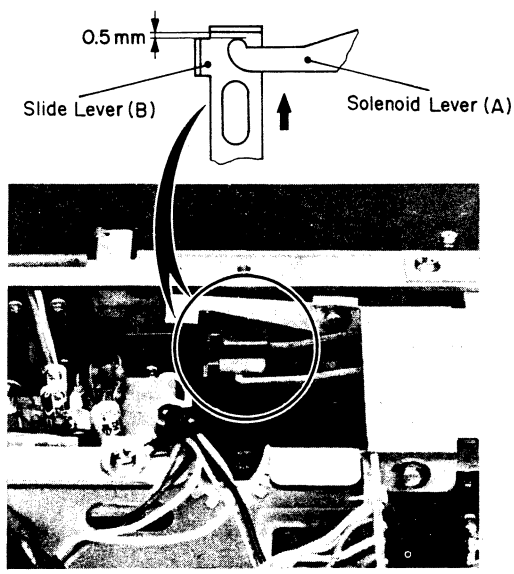


Fig. 4-2

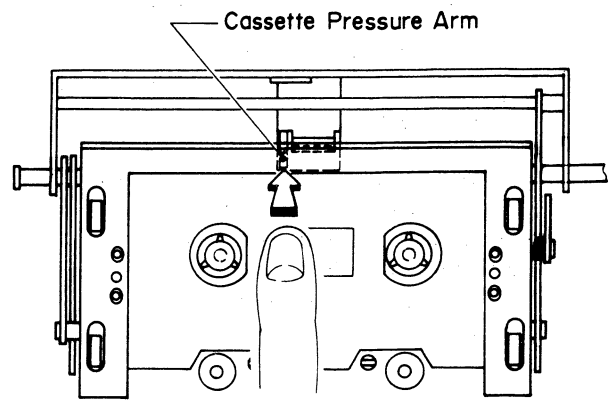


Fig. 4-3

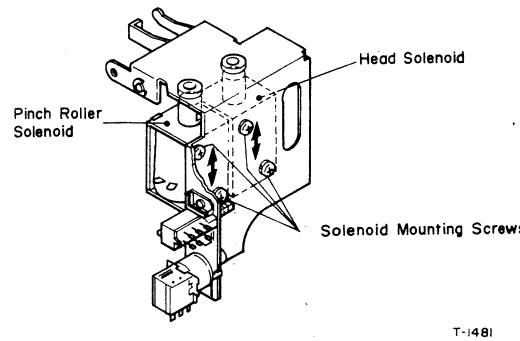


Fig. 4-4

4-3 PINCH ROLLER SOLENOID POSITION

NOTE: If #4-2 is needed along with this section, do #4-2 first.

1. Close the empty cassette holder and press the cassette pressure arm (Fig. 4-3).
2. Set in the play mode.
3. Adjust the solenoid position (Fig. 4-4) until a clearance as shown is obtained.

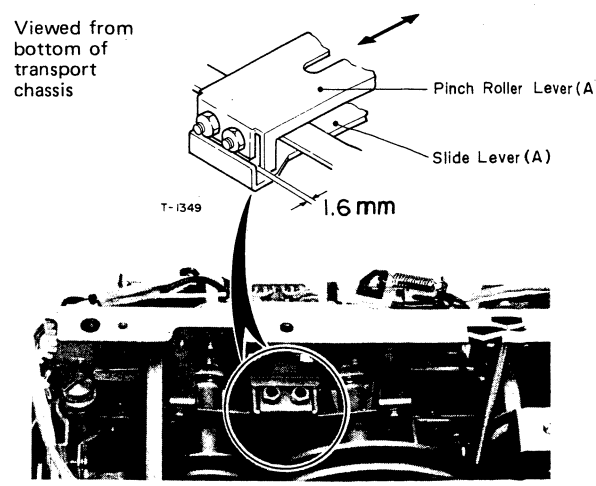


Fig. 4-5

4-4 CAPSTAN MOTOR SWITCH POSITION

1. Check that when inserting a cassette tape in the cassette holder and closing it, the capstan motor switch is firmly actuated to run the capstan motor.
2. If the capstan motor does not rotate, adjust the switch position.
3. Depress EJECT button to open the cassette holder. At this time, check that the switch workes to stop the motor rotation shortly before the actuated cassette pressure lever is locked.
4. Check that when the EJECT button is pushed down fully, the switch housing and the actuator of the switch do not make contact.

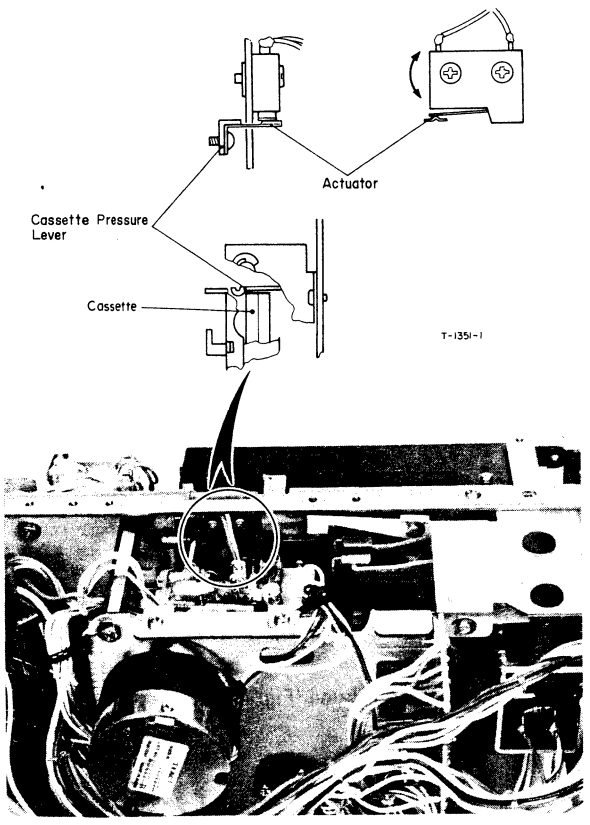


Fig. 4-6

4-5 RECORD SAFETY SWITCH POSITION

1. Shut the empty cassette holder.
2. Adjust the switch position so that when closing the holder, the switch can be firmly closed by the relay lever.
3. Open the cassette holder, insert a blank cassettte in the holder and close the holder.
4. Check that when depressing the RECORD button together with the play button, deck is set in the record mode.

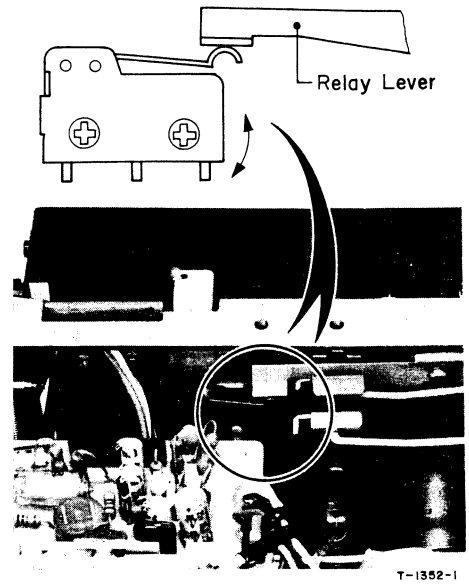


Fig. 4-7

4-6 BRAKE SOLENOID POSITION

1. Load any cassette tape.
2. Put in the play mode.
3. Check that a clearance between the reel table and the brake shoes is as shown in Fig. 4-8.
4. Check that position relationship between the lever and the eject lever is as shown in Fig. 4-9.
5. Check that the EJECT function is inhibited.
6. If the above items cannot be obtained, adjust the brake solenoid position.

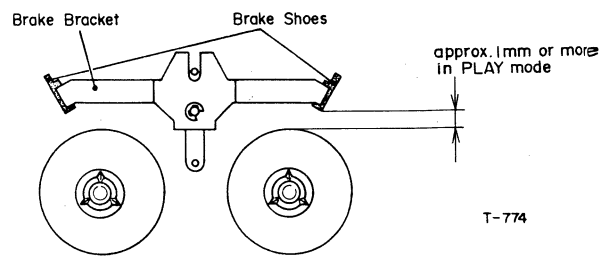


Fig. 4-8

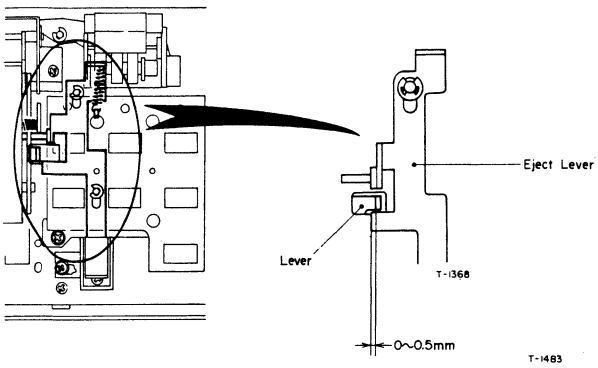


Fig. 4-9

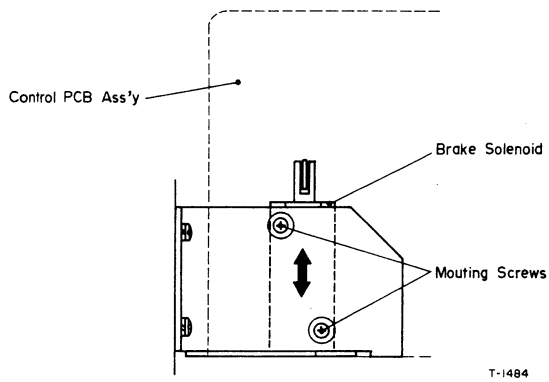


Fig. 4-10

4-7 CAPSTAN ASSEMBLY THRUST

NOTE: The explanation below applies to both right and left capstan assemblies.

1. Keep about 1 mm of clearance between the capstan ring and the capstan holder so that the ring will not disturb later adjustment.
2. Adjust the thrust adjusting screw so that the thrust of the capstan shaft is limited to 0.1 to 0.3 mm.
3. Adjust the capstan ring height so that, with the capstan shaft in contact with the adjusting screw, it is about 0.5 mm separated from the capstan holder.

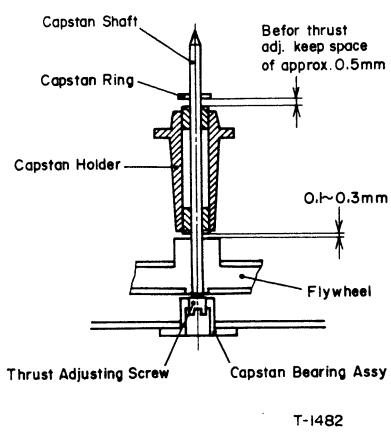
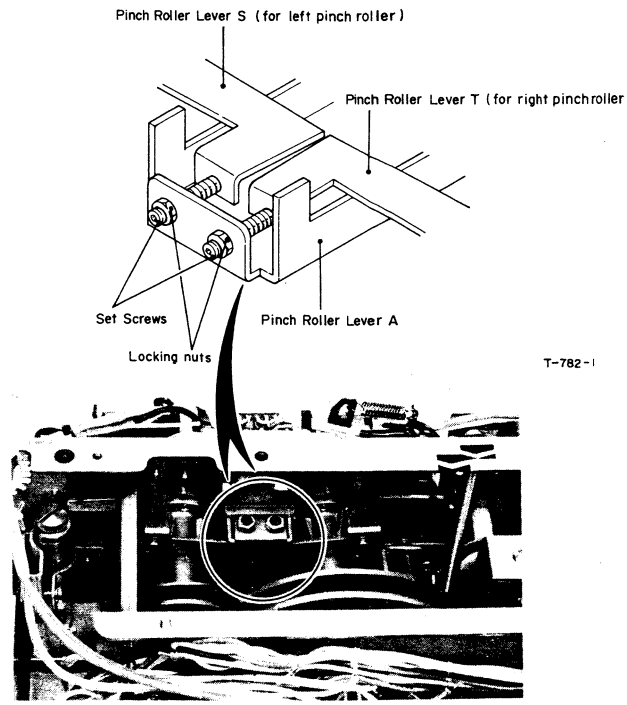


Fig. 4-11

4-8 PINCH ROLLER POSITION BALANCE

NOTE: The explanation below applies to both left and right pinch rollers.

1. Close the empty cassette holder and press the cassette pressure arm (Fig. 4-3).
2. Set in the play mode.
3. Turn the set screw until the pinch roller touches the capstan shaft, then turn the screw in the same direction about two more rotations. Do this for both pinch roller levers, S and T.
4. Tighten the locking nut.
5. Set in the pause mode with no cassette.
6. Check that a clearance between the pinch roller and capstan shaft is as shown in Fig. 4-13.


Pinch Roller Lever S (for left pinch roller)
Pinch Roller Lever T (for right pinch roller)
Set Screws
Pinch Roller Lever A
Locking nuts
T-782-1

Viewed from bottom of transport chassis

Fig. 4-12

Figure shows the right pinch roller side

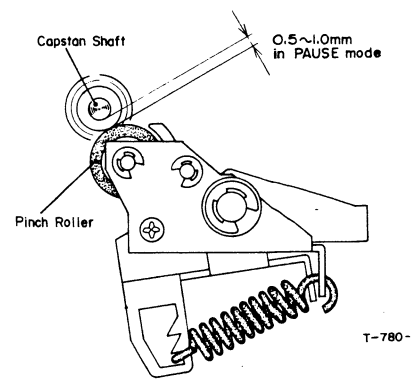


Fig. 4-13

4-9 PINCH ROLLER PRESSURE

NOTE: The explanation below applies to both left and right pinch rollers.

1. Close the empty cassette holder and press the cassette pressure arm (Fig. 4-3).
2. Set in the play mode.
3. Hook the spring scale to the pinch roller shaft.
4. Draw the pinch roller away from the capstan shaft in a direction directly downwards until the capstan shaft and the pinch roller are separated.
5. Return the scale back until the pinch roller just begins to rotate. The scale should then be reading as per specifications.
   Specifications: Take-up: 400g ~ 500g (14.1 oz ~ 17.6 oz)
   Supply: 300g ~ 380g (10.6 oz ~ 13.4 oz)
6. If the reading is out of the specified range, adjust the tension of the pinch roller spring by bending the tab of the pinch roller ass'y as shown.

Figure shows the right pinch roller side

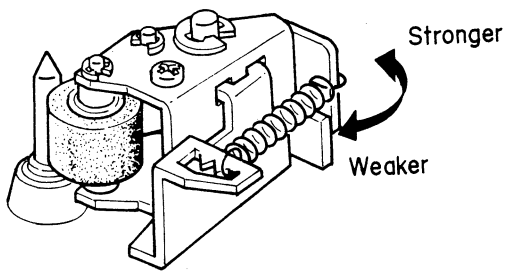


Fig. 4-14

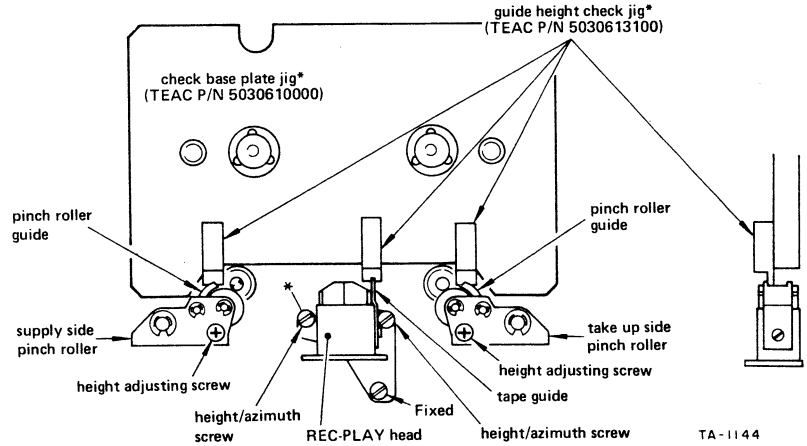
4-10 TAPE PATH ALIGNMENT

Coarse adjustment using jigs

1. Open the cassette ho der.
2. Insert the check base plate jig into the cassette holder very carefully. When doing this, hold the plate jig in place until its bottom edge sits on the stopper at the bottom of the cassette holder.
3. Having closed the cassette holder, firmly press down the plate jig.
4. Attach the tip of the guide height check jig, resting the plate jig, under the take-up side pinch roller guide, keeping a reasonable distance from the capstan shaft in order not to scratch the shaft.
5. Using this jig, adjust the height of the guide by turning the height adjusting screw. When doing this, be sure that the final turn of the screw is in the clockwise direction. Do so for all subsequent adjustments of screws and nuts. Repeat the supply side pinch roller guide adjustment in the same way.
6. Move the height jig into proximity with the REC-PLAY head front surface.
7. Adjust the two height/azimuth screws until the tip of the jig just fits under the tape guide of the head.
8. At this time, adjustment should be done with the head parallel to the slide base (as far as possible).

Fine adjustment using mirror-type cassette

9. Load a mirror-type cassette* (C-90)
   * Ones made by TEAC are designated "Compact Cassette Tape Path Checker" and classified into 2 types: MTT-901 (C-60, 30 m) and MTT-902 (C-90, 45 m).
10. Set in the play mode, retracting the REC-PLAY head by hand so that the head does not contact the tape.
11. Check that pinch guide(s) do not cause tape curling.
12. If the setting is wrong, fine-adjust the height of the take-up side pinch roller guide until the tape curling disappears.
13. Gradually relax the head retraction until the deck is in the regular play mode. Check that the tape runs normally.
14. If there is tape curling, particularly at the supply side pinch roller guide, adjust the height of the tape guide of the REC-PLAY head by slightly turning the height/azimuth screw near the tape guide. Then adjust the height of the take-up side pinch roller guide. Note that height adjustment of the supply side pinch roller guide is not permissible.
15. In the event that eliminating tape curling is impossible even

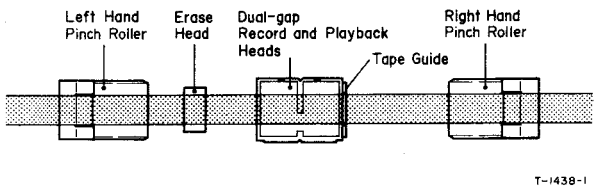


*These jigs are the ones used for the C-1, C-2, A-800 and CX-650R.

Fig. 4-15

though the above adjustment has been made, add or substract washer(s) beneath the heads (see Fig. 4-17) as appropriate. Readjust.

16. Adjust height/azimuth screw(s) so that the head appears visually parallel to the tape.
17. Check that the tape travel is correct when the joint of the leader tape and the magnetic tape passes through the tapa path.



*This diagram shows the head ass'y etc., as reflected by the mirror of mirror-type cassette.

Fig. 4-16

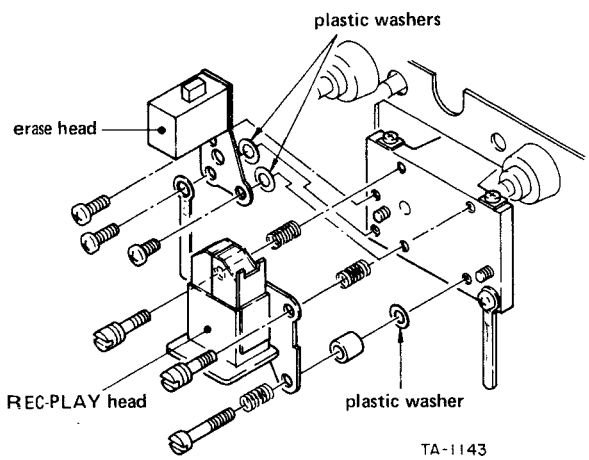


Fig. 4-17

4-11 TAPE SPEED

NOTE: Tape speed setting should be done after about 20 seconds of operating time of the deck.

1. Connect test equipment to the deck.
2. Load and play a TEAC MTT-111 test tape.
3. Push in the PITCH CONT switch knob.
4. Adjust VR2 on the servo amplifier PCB ass'y for a reading of 3,000 Hz ±5 Hz using a screwdriver with a completely insulated handle.
5. Set the PINTCH CONT switch knob ON.
6. Adjust VR1 so that when the knob is centered, that is at the click point, the reading is 3,000 Hz ±5 Hz.
7. Check the following at any portion of the tape run.
   Specifications:
   Tape speed deviation: 3,000 Hz ±30 Hz
   Tape speed drift: 15 Hz
8. If the tape speed is out of specification, check the pinch roller pressure and the tape driving function and check that the tape path is clean.

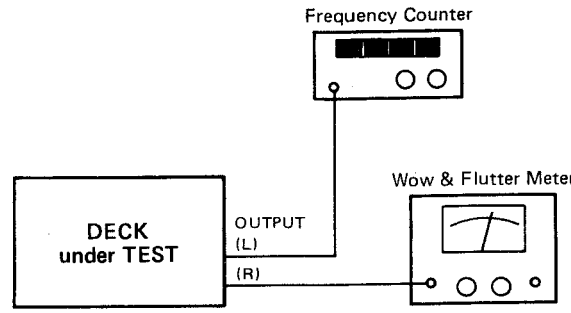


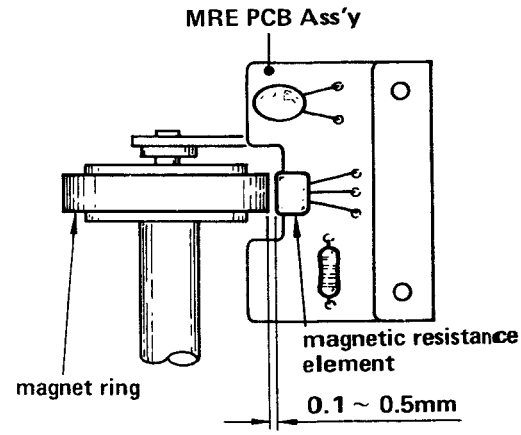
Fig. 4-18

4-12 REEL MOTOR TORQUE

1. Load the cassette torque meter.
2. Set in the play mode.
3. Reading the pointer indication on the dial scale, adjust R652 for the take-up torque of the right motor.
   Specification: 45 ~ 65 g.cm (0.62 ~ 0.90 oz. inch)
4. While continuously playing, set R651 so that the supply torque of the left motor is:
   Specification: 9 ~ 11 g.cm (0.12 ~ 0.15 oz. inch)

4-13 MAGNETIC RESISTANCE ELEMENT POSITION

1. Adjust by moving the entire MRE PCB ass'y so that the clearance is 0.1 mm ~ 0.5 mm as shown.
2. Do not adjust only the position of the magnetic resistance element.



MRE PCB ass'y is located below the SERVO AMP PCB ass'y (see Fig. 2-1) next to the brake solenoid.

Fig. 4-19

4-14 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use oil and grease specified below.

Oil: TEAC Spindle Oil (from TEAC TZ-255 Oil Kit), Mobil D.T.E. Oil Light, or equivalent

Grease: ORE-LUBE G1/3 or equivalent

1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of the flywheels, then insert the shafts into the capstan housings.
2. Apply a suitable amount of light grease to the well of the flywheel bearings.

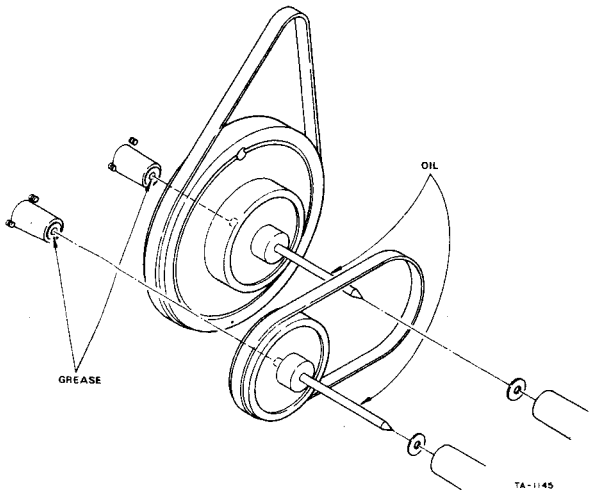


Fig. 4-20

4-15 VOLTAGE CONVERSION (FOR GENERAL EXPORT MODELS)

1. Disconnect the power cord of the deck from the source.
2. Remove the deck cover by removing two screws on each side and two screws on the top. Locate the voltage selector near the transformer inside in the deck.
3. To increase the selected voltage, turn the slotted center post clockwise using a screwdriver or other suitable tool.
4. To decrease the selected voltage, turn the slotted center post counterclockwise.
5. The numerals that appear in the cut-out window of the voltage selector indicate the selected voltage.

NOTE: For cassette deck models with DC Capstan and Reel Motors, no modification is required for change of power line frequency from 60 Hz to 50 Hz and vice versa.

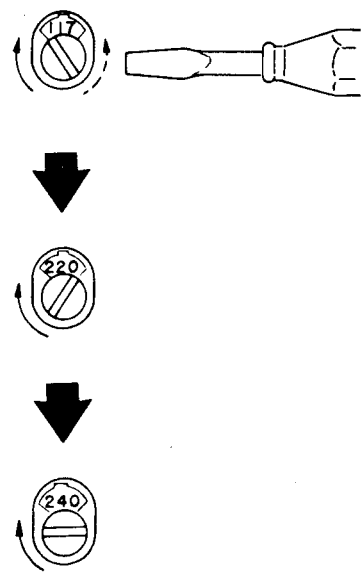


Fig. 4-21

5 ELECTRICAL ADJUSTMENTS AND CHECKS

PRECAUTIONS

1. Before performing adjustments and checks, clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are done in the order of L-ch then R-ch. Double REF. NOs. and test point designations indicate L-ch/R-ch.
   (Example: R867/R868)
4. The value of "dB" refers to 0 dB (0.775 V). If an AC voltmeter calibrated to 0 dB (1 V) is to be used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
6. **Note the "Deck settings" at the top of each chart. The settings must be used for all the checks or the chart unless explicitly stated otherwise.**
7. **All the checks in the charts are described under the condition that the BIAS/EQ card (REFERENCE) is plugged into the front panel.**

5-1 DC VOLTAGE (+15 V) ADJUSTMENT

Adjust R929 on the power supply PCB for +15 V DC between the pin 6 of the terminal P901 on the PCB and the ground.

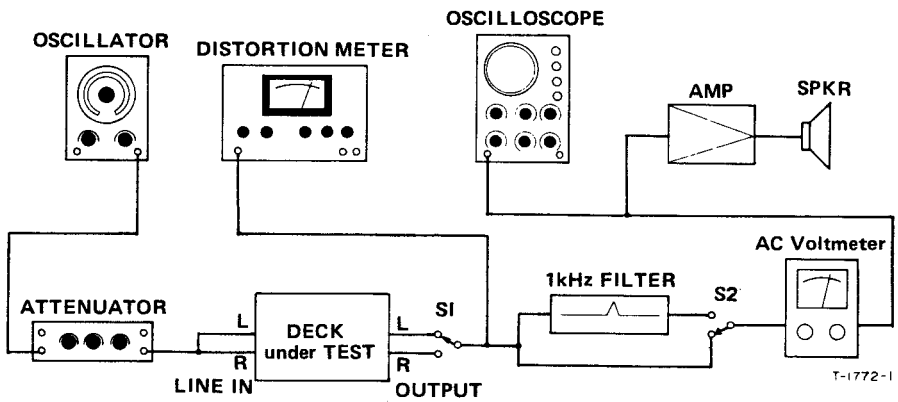


Fig. 5-1 Basic test setup

–70 dB or more ... What does it mean?

Values in dB are often given like this: "–70 dB or more". This sometimes leads to confusion. Is –76 dB more than –70 dB or less? To put the record straight, the "more" refers to the absolute value. The absolute value of –70 is |70|. The absolute value of –76 is |76| which is 6 more than 70.

So, –76 dB is "more" than –70 dB
–55 dB is "less" than –60 dB

5-2 PLAYBACK PERFORMANCE

Deck settings:
MONITOR sw.—TAPE OUTPUT
NR SYSTEM sw.—OUT
EQ sw.—METAL

TEAC test tapes:
MTT-150: For Dolby level calibration
MTT-316: For playback frequency response check for METAL, Co(CrO_2)
MTT-216: For playback response check for NORMAL

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT / RESULT	REMARKS
1. **REC/PLAY head azimuth**	Conn. — Fig. 5-2 EQ—Co (CrO_2) OUTPUT cont. — convenient output level position	MTT-316 (12.5 kHz)	Azimuth screw of R/P heads (* in Fig. 4-15)	OUTPUT • Phase: about 0° on 'scope (Fig. 5-3) • Max. output on VTVM	
2. **Phase shift**	Same as above	MTT-316	Check	OUTPUT Phase: 45°min. (315 Hz) 90°min. (40 Hz ~ 14 kHz)	
3. **Output level**	—	MTT-150	R121 (L/R)	TP1 on PLAYBACK AMP PCB (L/R) 580 mV (−2.5 dB)	
	OUTPUT cont. — Max.	"	Check	" +1 dB ±2 dB (690mV ~ 1.09 V)	Max. output level
	—	"	OUTPUT cont.	OUTPUT L-ch −5 dB (436 mV)	• **Spec. setting of OUTPUT cont.** • Spec. output level
	—	"	R896	OUTPUT R-ch "	
	IMPORTANT: Do not move OUTPUT cont. during any later process.				
4. **Frequency response**	OUTPUT cont. — Spec. setting EQ—METAL, Co(CrO_2) • Adjust for 10 kHz to be the same level as ref. signal	MTT-316	R112 (L/R)	OUTPUT 40Hz~10kHz ±2dB 14kHz +2,−3dB	Ref. 315Hz
	EQ—NORMAL	MTT-216	Check	" "	
5. **Signal-to-noise ratio**	EQ—METAL ..... Co(CrO_2) ..... NORMAL	Fully erased tape (Use bulk tape eraser) ...METAL ....MTT-506 ....MTT-501	Check	OUTPUT ...52 dB min. ratio ...48 dB min. ratio	Ratio of spec output −5 dB to noise
6. **Headphone output level**	Conn.—Fig. 5-4	MTT-150	Check	PHONES −15.7dB ±2 dB (101 mV ~ 160 mV)	8 ohm load

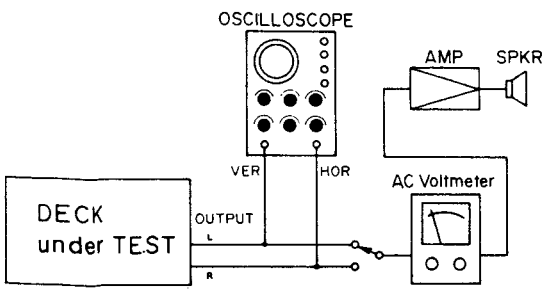


Fig. 5-2

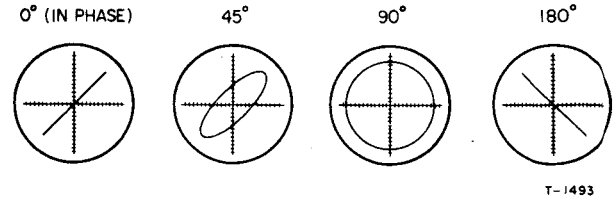


Fig. 5-3 Confirming Phase Relationship

5-3 MONITOR PERFORMANCE

Deck settings:
STOP mode
MONITOR sw. –SOURCE

NR SYSTEM sw. – OUT
INPUT sw. – LINE
OUTPUT cont. – Spec. setting (item 3)

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT / RESULT	REMARKS
7. Min. input level	RECORD cont. – Max INPUT sw. – MIC	MIC 400Hz/–67 dB (346 μV)	Check	TP1on REC. AMP PCB (L/R) –2.5dB ±2dB (461mV~731mV)	MIC min. input level (MIC)
	INPUT sw. – MIC ATT	" "	"	" –22.5dB±3dB (41.1mV~82.0mV)	MIC min. input level (MIC ATT)
	INPUT sw. – LINE	LINE IN 400 Hz/–19 dB (86.9 mV)	"	" –2.5dB ±1dB (518mV~652mV)	LINE min. input level
8. LINE spec. input level	–	LINE IN 400 Hz/–9 dB (275 mV)	RECORD cont.	OUTPUT –5dB (436 mV)	**Spec. setting of RECORD cont.**
	–	" "	Check	TP1 on REC AMP PCB (L/R) –2.5 dB ±0.5 dB (548mV~615mV)	
	IMPORTANT: Do not move RECORD or, OUTPUT controls during any later process.				
9. Peak level meter (record)	RECORD cont.–Spec. setting	LINE IN 400 Hz/–9 dB (275 mV)	R867/R868	Peak level meter 0 dB	
	–	" 400 Hz/–39 dB (8.69 mV)	R869/R870	" –30 dB	
	Repeat these two adjustments until meter indication at 0, –10, –20, –30 and –40dB points are within tolerance.			P. I. meter tolerance –5dB~+5dB = ±1 dB –20dB~–6dB = ±2.5dB –21dB & over = ±3.0dB	
10. Peak level meter (playback)	Set in playback mode EQ sw. – METAL	MTT-150	Check	OUTPUT –5dB (436 mV)	
	–	"	R807/R808	P.I. meter 0 dB	
	MONITOR – TAPE CAL	"	Check	" "	

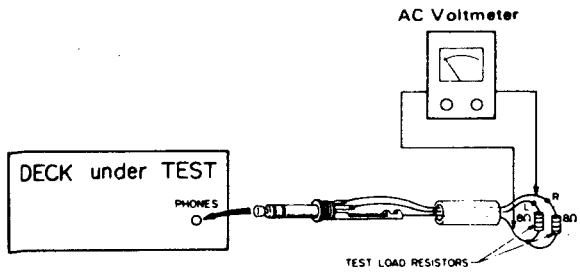


Fig. 5-4

5-4 RECORDING PERFORMANCE

Deck settings:

MONITOR sw. – TAPE OUTPUT
NR SYSTEM sw. – OUT
INPUT sw. – LINE
OUTPUT cont. – Spec. setting (item 3)
RECORD cont. – Spec. setting (item 8)

TEAC test tapes:

MTT-506: For record test with Co(CrO_2)
MTT-501: For record test with NORMAL
METAL: For record test with METAL

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT / RESULT	REMARKS
11. Bias trap	Record-pause mode	LINE IN No signal	L801/L802	Between TP3/TP2 and TP1(GND) on OSC PCB Min. reading	
12. Record bias	EQ–METAL METAL tape	LINE IN 6.3 kHz/–42 dB (6.15 mV)	R865/R866	OUTPUT 0.5dB over-bias	Coarse adj.
		" 400Hz & 15 kHz alternately/–42 dB	"	" Nearly equal level (±1 dB) at both freq.	Fine adj.
		" 18 kHz/–42 dB	L307 (L/R)	" 18kHz to be within spec. (item 15)	
	EQ–Co(CrO_2) MTT-506 tape	" 6.3 kHz/–42dB	R863/R864	" 1.0 dB over-bias	Coarse adj.
		" 400 Hz & 15 kHz alternately/–42dB	"	" Nearly equal level (±1dB)at both freq.	Fine adj.
		" 18kHz/–42dB	L306 (L/R)	" 18kHz to be within spec. (item 15)	
	EQ–NORMAL MTT-501 tape	" 6.3kHz/–42dB	R861/R862	" 1.0 dB over-bias	Coarse adj.
		" 400Hz & 15 kHz alternately/–42 dB	"	" Nearly equal level (±1 dB) at both freq.	Fine adj.
		" 16 kHz/–42 dB	L305 (L/R)	" 16 kHz to be within spec. (item 15)	
13. Record level	EQ–METAL/METAL tape –Co(CrO_2)/MTT-506 –NORMAL/MTT-501	LINE IN 400 Hz/–12 dB (195 mV)	R364 (L/R) R366 (L/R) R367 (L/R)	OUTPUT –8 dB (308 mV)	
14. Total harmonic distortion	Same as above	LINE IN 400 Hz/–12 dB (195 mV)	Check	OUTPUT 2% or less distortion	
15. Frequency response	EQ–METAL/METAL tape –Co(CrO_2)/MTT-506 –NORMAL/MTT-501	LINE IN Required signal/–42dB (6.15 mV)	Check	OUTPUT 31.5Hz +2,–4dB 63Hz~10kHz ±2dB 16kHz +2,–4dB 18kHz +2,–4dB	Ref.: 400Hz .. NORMAL .. Co(CrO_2) & METAL
	If frequency response is wrong, recheck steps 12 and 14.				
16. Signal-to-noise ratio	EQ–METAL/METAL tape –Co(CrO_2)/MTT-506 –NORMAL/MTT-501...	LINE IN 1 kHz/–9 dB (275mV) ↓ no signal	Check	OUTPUT ... 48dB min. ratio .....45dB min. ratio	Ratio of spec. output –5dB to noise
17. Erase efficiency	• Connection – Fig. 5-1. But switch ON 1kHz filter. • Record 1 kHz. Rewind tape to mid point of recorded portion. Do "no signal" recording. Get difference between 1 kHz portion and its erased portion.				
	EQ–METAL/METAL tape (or Co(CrO_2)/MTT-506)	LINE IN 1 kHz/+1dB (0.869V) ↓ no signal	Check	OUTPUT 65 dB min. ratio	Ref. output level: +5 dB (1.38 V)

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT / RESULT	REMARKS
18. REC MUTE function	• Connection — Fig. 5-1. But switch ON 1 kHz filter. • Record 1 kHz .Then push REC MUTE button for several sec. Rewind and play tape. Get difference between 1 kHz portion and the "no signal" portion.				
	EQ–METAL/METAL tape (or Co(CrO_2)/MTT-506)	LINE IN 1 kHz/+1 dB (0.869 V) ↓ no signal	Check	OUTPUT 65 dB min. ratio	Ref. output level: +5 dB (1.38 V)
19. Channel separation	• Connection– Fig. 5-1. But do not connect LINE IN (R), switch ON 1 kHz filter. • Set deck in record mode. Find differences between 1 kHz recorded portion (L-ch) and "no signal" portion (R-ch).				
	EQ–METAL/METAL tape (or Co(CrO_2)/MTT-506)	LINE IN L-ch 1 kHz/–9 dB (275 mV) R-ch No signal	Check	OUTPUT 35 dB min. ratio	
20. Adjacent track crosstalk	• Connection – Fig. 5-1. But do not connect LINE IN (L) and OUTPUT (L). • Record 125 Hz on R-ch. Note output level of its recorded portion. Invert tape and play R-ch track. Check leakage level against the output reference of previously recorded portion.				
	EQ–METAL/METAL tape (or Co(CrO_2)/MTT-506)	LINE IN L-ch No signal R-ch 125 Hz/–9 dB (275 mV)	Check	OUTPUT 40 dB min. ratio	
21. Dolby NR effect	• Record 1 kHz with NR SYSTEM switch to OUT. Play its portion with switch, OUT and DOLBY. Get the output level difference between OUT and DOLBY positions. Repeat the above process for 10 kHz.				
	EQ–METAL/METAL tape (or Co(CrO_2)/MTT-506)	LINE IN 1 kHz/–29 dB (27.5 mV)	Check	OUTPUT Variation 3 dB ~ 8 dB	
	"	" 10 kHz/–39 dB (8.69 mV)	"	" 8 dB ~ 12 dB	

5-5 ADJUSTMENT AND TEST POINT LOCATIONS

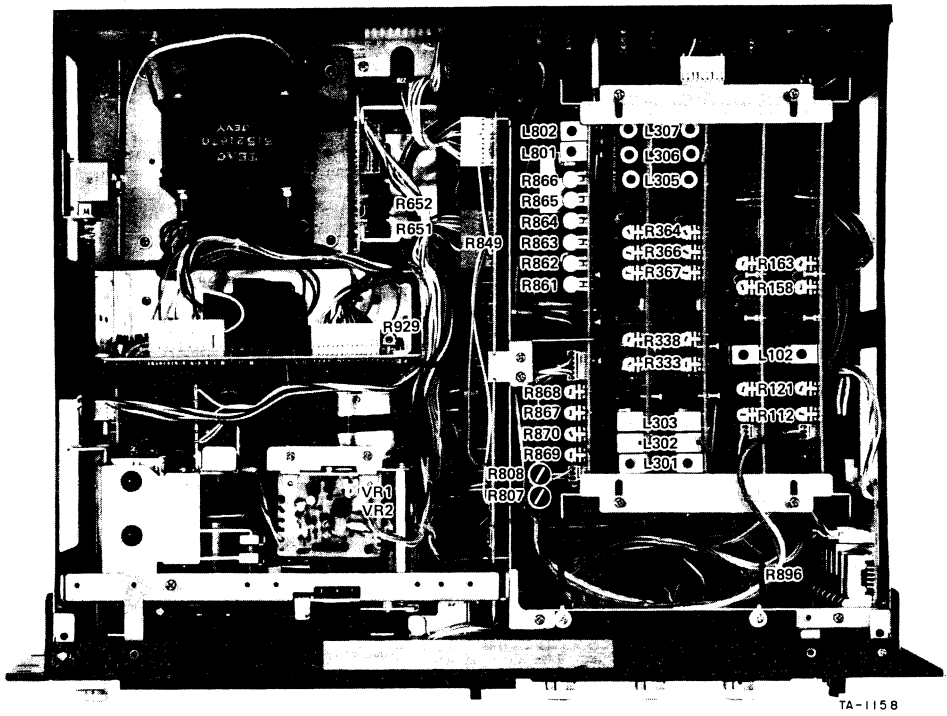


Fig. 5-5

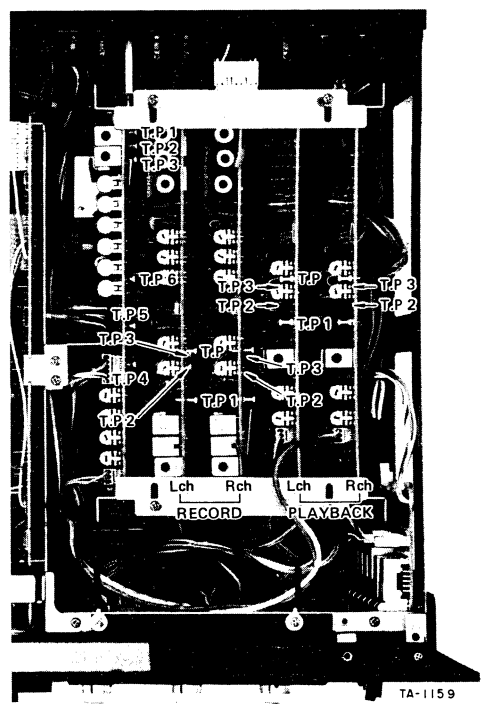
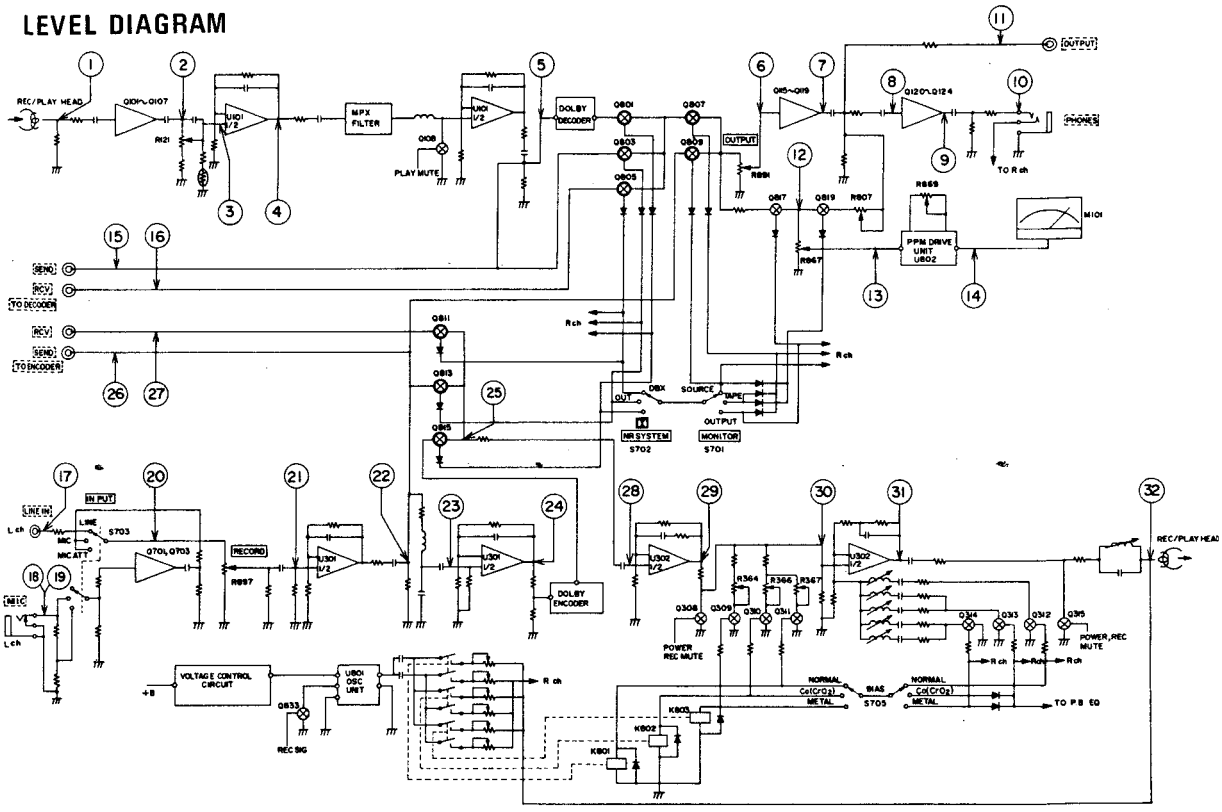
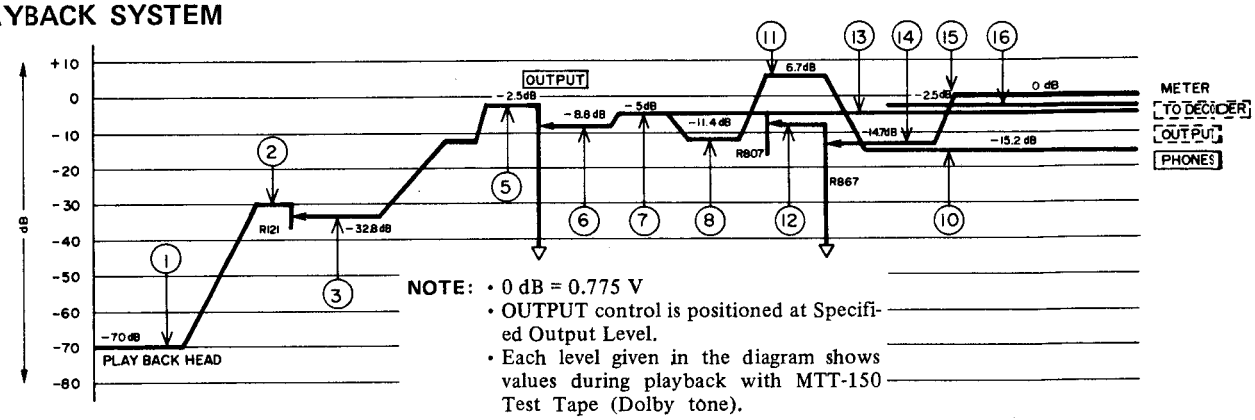


Fig. 5-6

5-6 LEVEL DIAGRAM

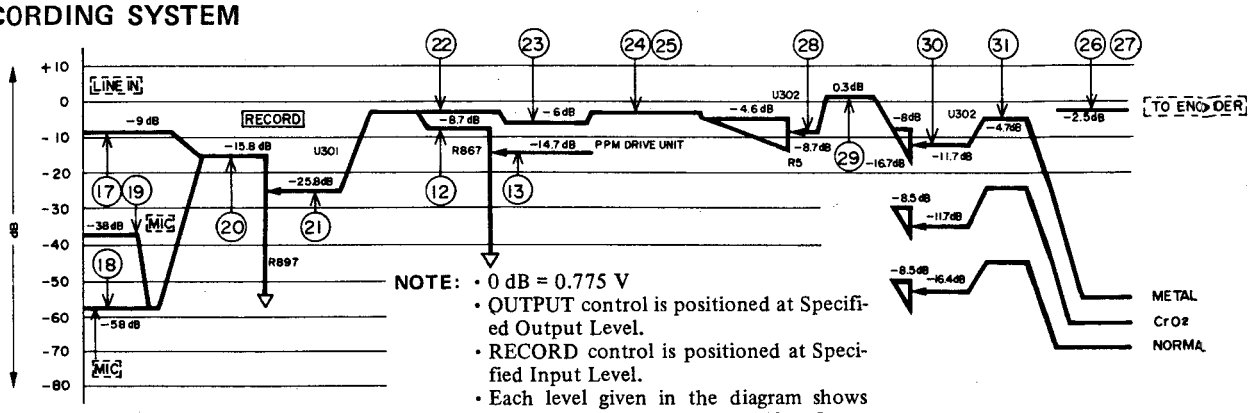


PLAYBACK SYSTEM



NOTE:
- 0 dB = 0.775 V
- OUTPUT control is positioned at Specified Output Level.
- Each level given in the diagram shows values during playback with MTT-150 Test Tape (Dolby tone).

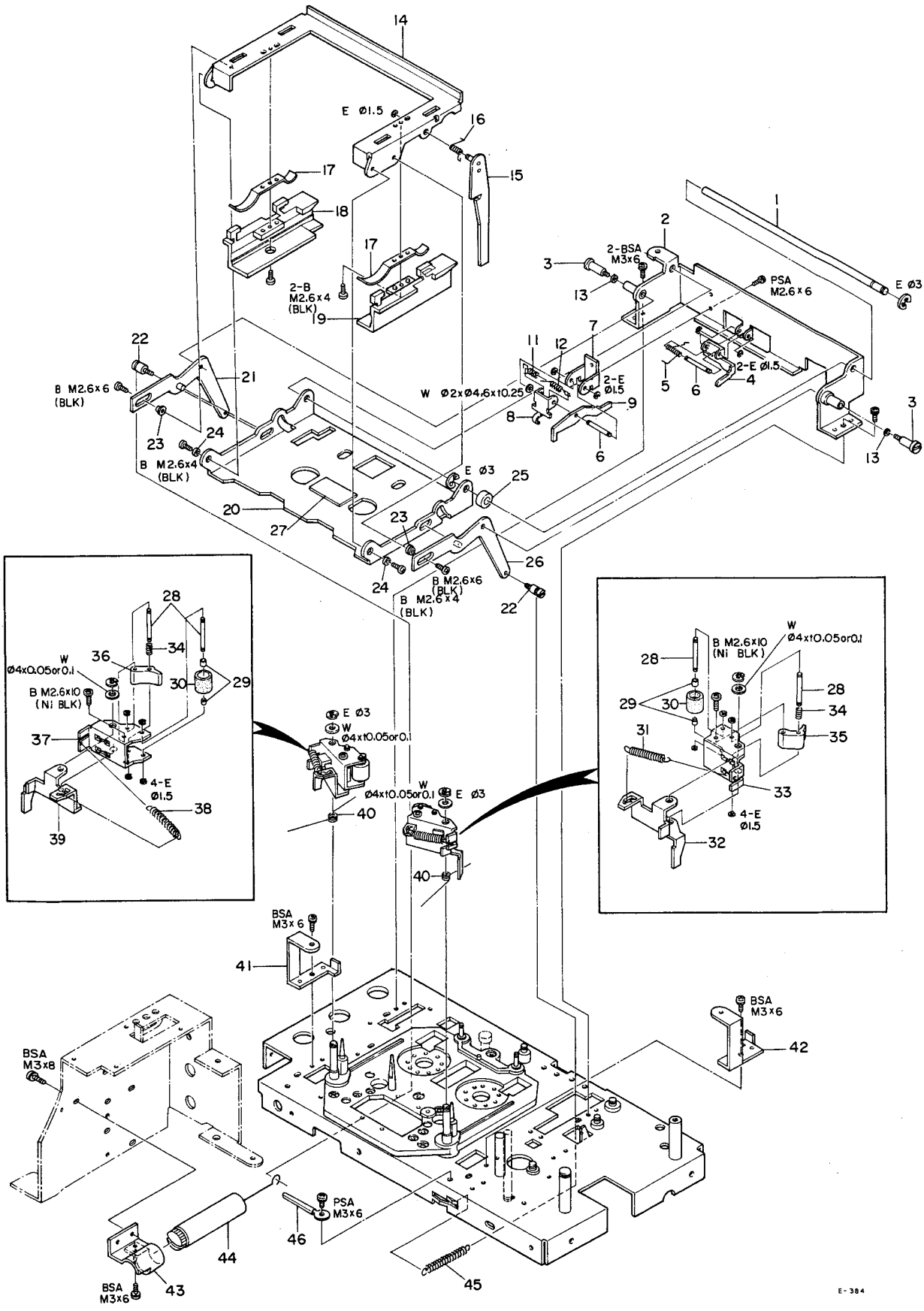
RECORDING SYSTEM



NOTE:
- 0 dB = 0.775 V
- OUTPUT control is positioned at Specified Output Level.
- RECORD control is positioned at Specified Input Level.
- Each level given in the diagram shows values when a 400 Hz Specified Input Level is applied.

Fig. 5-7

EXPLODED VIEW - 2



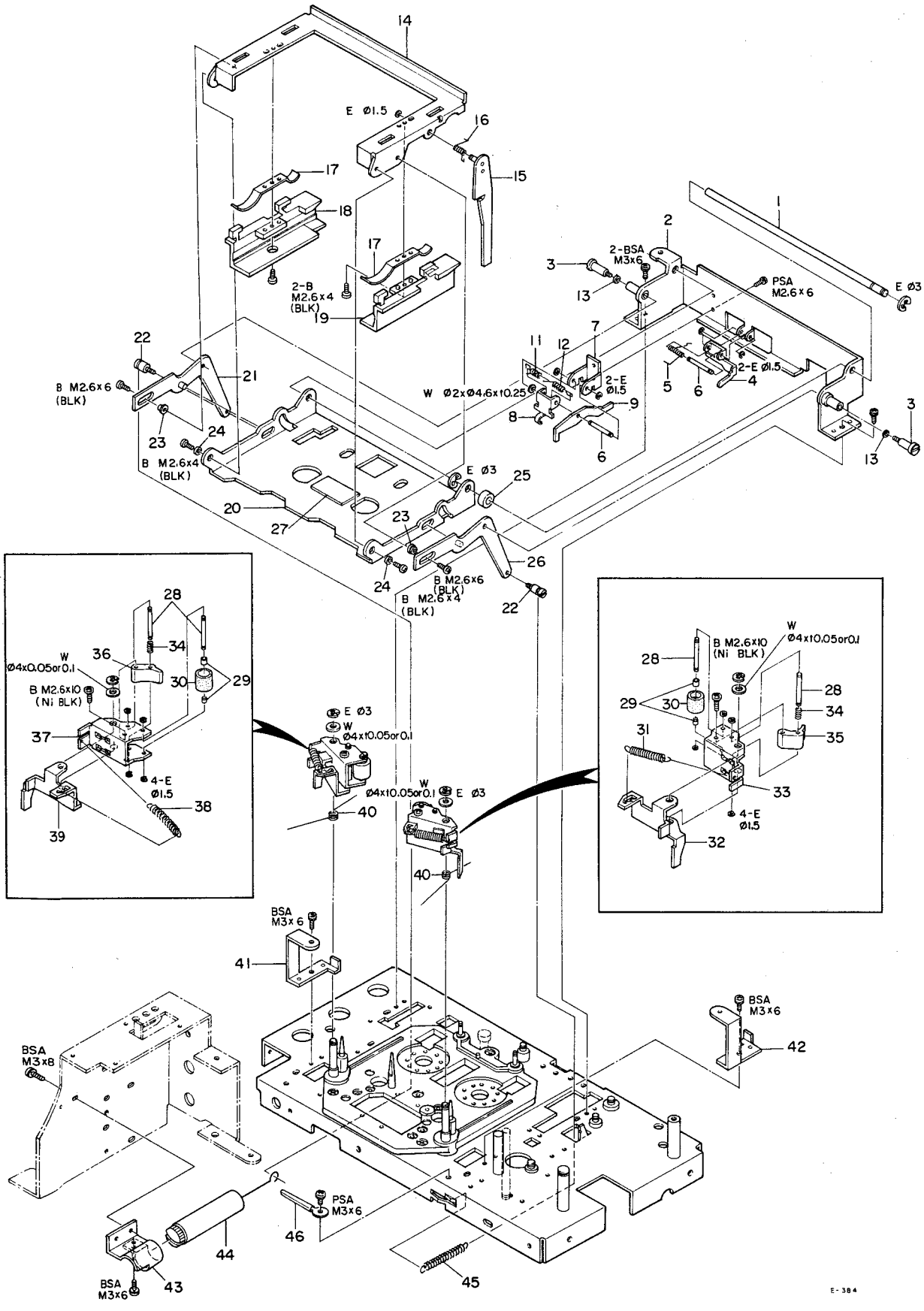
Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	*5552282000	Cover, Top; A	
1 - 2	5524163000	Retainer, Escutcheon	
1 - 3	*5553233000	Bracket, Handle; A-L	JAPAN
	*5553235000	Bracket, Handle; B-L	All except JAPAN
1 - 4	*5553234000	Bracket, Handle; A-R	JAPAN
	*5553236000	Bracket, Handle; B-R	All except JAPAN
1 - 5	*5504552000	Foot	
1 - 6	*5503153000	Cover Assy, Bottom	
1 - 7	*5533153000	Leg, Rubber	
1 - 8	*5503144000	Stand Assy	
1 - 9	5800014300	Panel Assy, Front; A (CREAM)	JAPAN
	5800014400	Panel Assy, Front; B (BROWN)	All exceppt JAPAN
1 - 10	5534431000	Button, B	
1 - 11	5504712000	Knob Assy, TIMER	
1 - 12	5544780000	Knob, PITCH CONT	
1 - 13	5543027000	Knob, VR	
1 - 14	5534521000	Knob, Lever Switch	
1 - 15	5502249000	Escutcheon Assy, A	
1 - 16	5503148000	Cover Assy, Cassette	
1 - 17	5544729000	Screw, Trim	
1 - 18	5800015500	Cover, Head	JAPAN
1 - 19		(Not used)	
1 - 20	5596127000	CX-8, REFERENCE	JAPAN
	5596128000	CX-8, REFERENCE	All except JAPAN

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	5128065000	Cord, Input-output Connection	
	5101369000	Information Supplement, Cassette	
	5101345000	Information Supplement, Cassette	
	5101495000	Information Supplement, Cassette	
	5740000000	Cover, Side; (A) (B)	JAPAN
	5740000010	Cover, Side; (C) (D)	
		Screw, F M3 x 6 (BLK Ni) 4 used	
		Screw, O M5 x 15 (Ni) 4 used	
	5544995000	Washer	
	5534659000	Spacer	
	5504567000	Handle Assy	
	5780214010	Screw, F M4 x 10 (Ni)	
	5700002000	C-1 MKII Owner's Manual	JAPAN
	5700002100	C-1 MKII Owner's Manual	U.S.A.
	5700002200	C-1 MKII Owner's Manual	All except JAPAN, U.S.A.

EXPLODED VIEW - 2

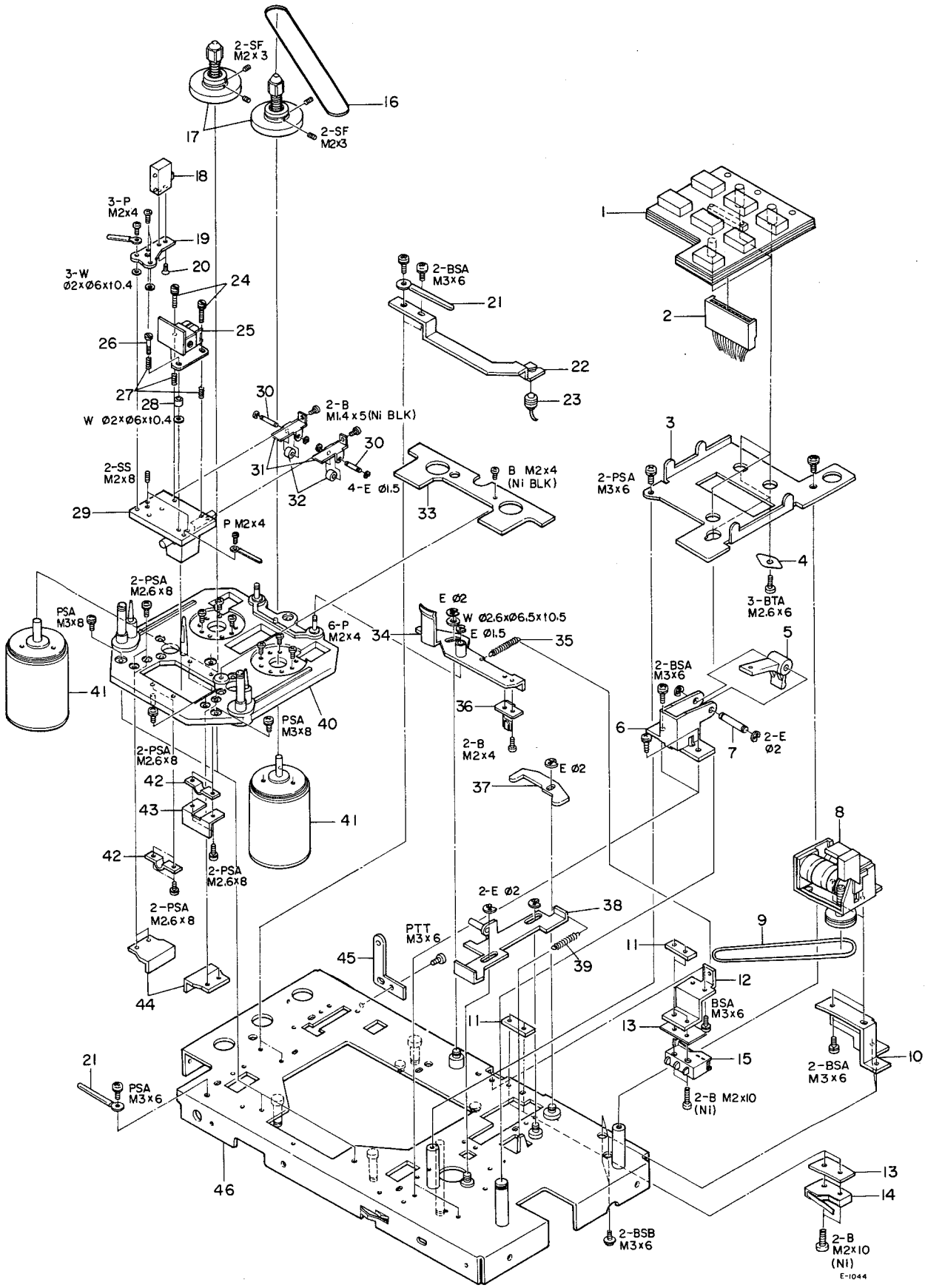


E-384

Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	*5544753000	Shaft, Cassette Holder	
2 - 2	*5504630000	Bracket Assy, Cassette Holder	
2 - 3	*5544774000	Pin, Guide	
2 - 4	*5555297000	Arm, Cassette Pressure	
2 - 5	*5524137000	Spring, Cassette Pressure	
2 - 6	*5544888000	Shaft	
2 - 7	*5555470000	Holder, Preventing Arm	
2 - 8	*5555321000	Arm, Record Preventing	
2 - 9	*5555471000	Lever, Record Preventing	
2 - 10		(Not used)	
2 - 11	*5524135000	Spring, Record Preventing; A	
2 - 12	*5524136000	Spring, Record Preventing; B	
2 - 13	*5544895000	Collar, Guide	
2 - 14	*5504627000	Holder Assy, Cassette; U	
2 - 15	*5504629000	Cam Assy, Lock	
2 - 16	*5524159000	Spring, Lock Cam	
2 - 17	5555305000	Spring, Cassette Pressure	
2 - 18	5533132000	Guide, Cassette; R	
2 - 19	5533133000	Guide, Cassette; L	
2 - 20	*5553226000	Holder, Cassette; L	
2 - 21	*5504553000	Link Assy, L	
2 - 22	*5544775000	Hook, Spring	
2 - 23	*5544751000	Collar, C	
2 - 24	*5544776000	Collar, Link	
2 - 25	*5544752000	Collar, Cassette Holder	
2 - 26	*5504561000	Link Assy, R	
2 - 27	*5534246000	Cover, Lamp	
2 - 28	*5544854000	Shaft, Pinch Roller	
2 - 29	5544759000	Collar, Pinch Roller	
2 - 30	5504640000	Pinch Roller Assy	
2 - 31	5520360000	Spring, Pinch Roller	
2 - 32	*5555306000	Sub-Arm, Pinch Roller; T	
2 - 33	*5553229000	Arm, Pinch Roller; T	
2 - 34	5520359000	Spring, Guide	
2 - 35	5534566000	Guide, Pinch Roller; T	
2 - 36	5534567000	Guide, Pinch Roller; S	
2 - 37	*5553230000	Arm, Pinch Roller; S	
2 - 38	5524140000	Spring, Pinch Roller; B	
2 - 39	*5555307000	Sub-Arm, Pinch Roller; S	
2 - 40	5520361000	Spring, Pinch Roller Return	
2 - 41	*5555294000	Angle, Stop; S	
2 - 42	*5555293000	Angle, Stop; T	
2 - 43	*5555308000	Holder, Damper	
2 - 44	5503143000	Damper Assy, Air	
2 - 45	*5524158000	Spring, Cassette Holder	
2 - 46	*5581038000	Retainer, Cord; A	

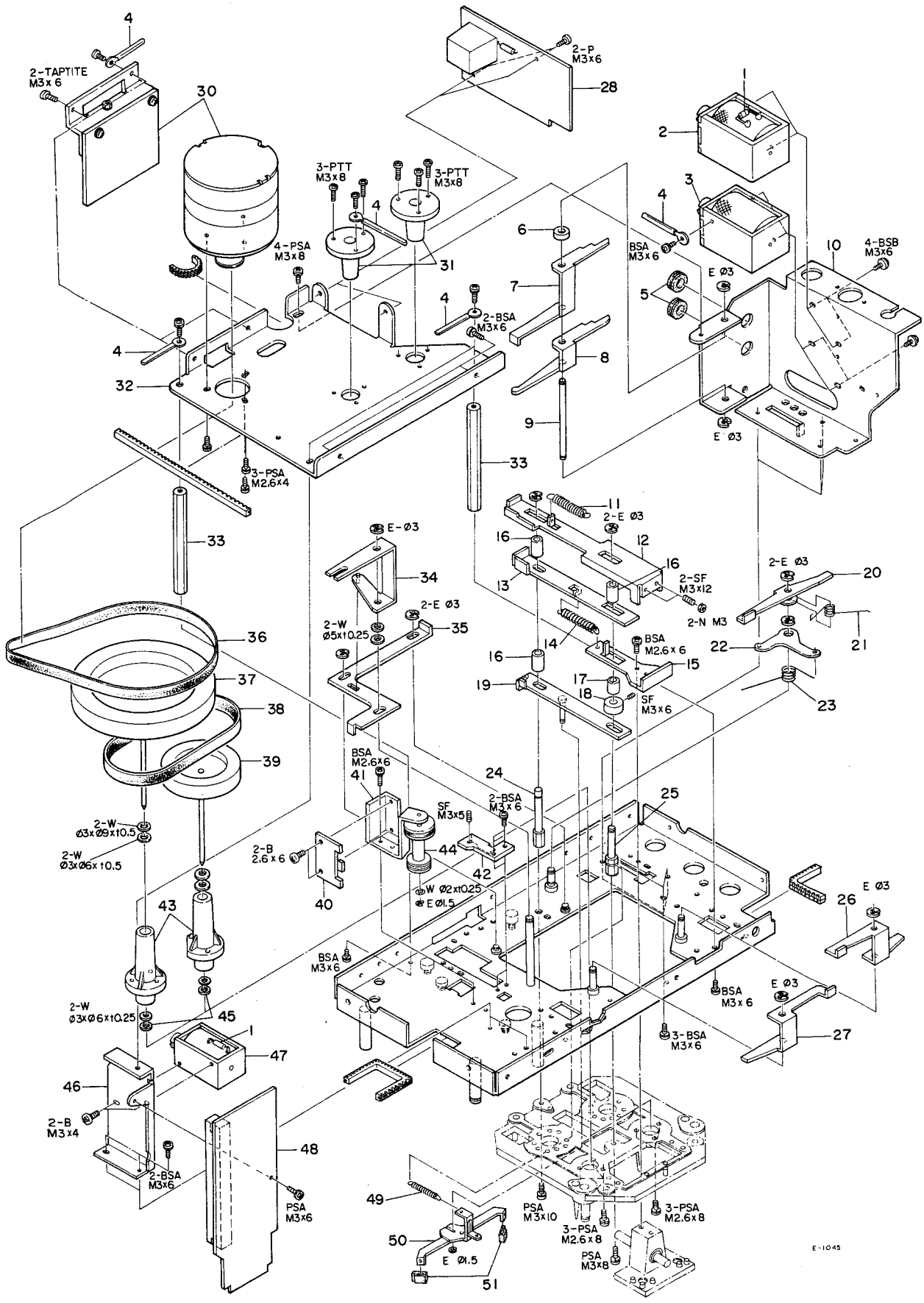
EXPLODED VIEW - 3



Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3 - 1	5138005000	Key Board Unit	
3 - 2	*5122174000	Connector, Socket; 12P	
3 - 3	*5555343000	Bracket, Key Board	
3 - 4	*5555271000	Spring, Key Board	
3 - 5	*5534496000	Cam, Eject	
3 - 6	*5555300000	Holder, Ejcet Cam	
3 - 7	*5544754000	Shaft, Eject Cam	
3 - 8	5533135000	Counter Assy	
3 - 9	5534497000	Belt, Counter; 1	
3 - 10	*5555303000	Bracket, Counter	
3 - 11	*5554447000	Plate, Micro Switch	
3 - 12	*5555312000	Bracket, Micro Switch	
3 - 13	*5554435000	Plate, Insulating	
3 - 14	5130004000	Switch, Micro	
3 - 15	5130003000	Switch, Micro	
3 - 16	5534498000	Belt, Counter, 2	
3 - 17	5504611100	Reel Table Assy	
3 - 18	5569400000	Head, Erase	
3 - 19	*5555311000	Plate, Head	
3 - 20	*5565494000	Screw F M2 x 3.5	
3 - 21	*5581038000	Retainer, Cord; A	
3 - 22	*5555416000	Bracket, Lamp	
3 - 23	5142089000	Lamp, Miniature	
3 - 24	5534507000	Screw, Head Mounting	
3 - 25	5569606100	Head, REC/PLAY; Dual Gap	
3 - 26	5544926000	Screw, Head Mounting; B	
3 - 27	5524141000	Spring, Head Adjusting	
3 - 28	5544772001	Spacer, Head	
3 - 29	*5504559000	Base Assy, Head; Slide	
3 - 30	*5544853000	Shaft, Roller	
3 - 31	*5555415000	Arm, Roller	
3 - 32	5504637000	Bearing	
3 - 33	*5555320000	Cover, Base	
3 - 34	*5504560000	Lever Assy, Cassette Pressure	
3 - 35	*5524139000	Spring, Pressure Lever	
3 - 36	*5555299000	Actuator	
3 - 37	*5555319000	Lever, Kick	
3 - 38	*5504628100	Lever Assy, Eject	
3 - 39	*5524157000	Spring, Eject	
3 - 40	*5503142200	Base Assy	
3 - 41	7105129000	Motor, Reel	
3 - 42	*5555420000	Holder	
3 - 43	*5555419000	Stopper	
3 - 44	*5555418000	Plate, Roller	
3 - 45	*5555345000	Bracket, Top Cover; A	
3 - 46	*5502185000	Chassis Assy, Mechanism	

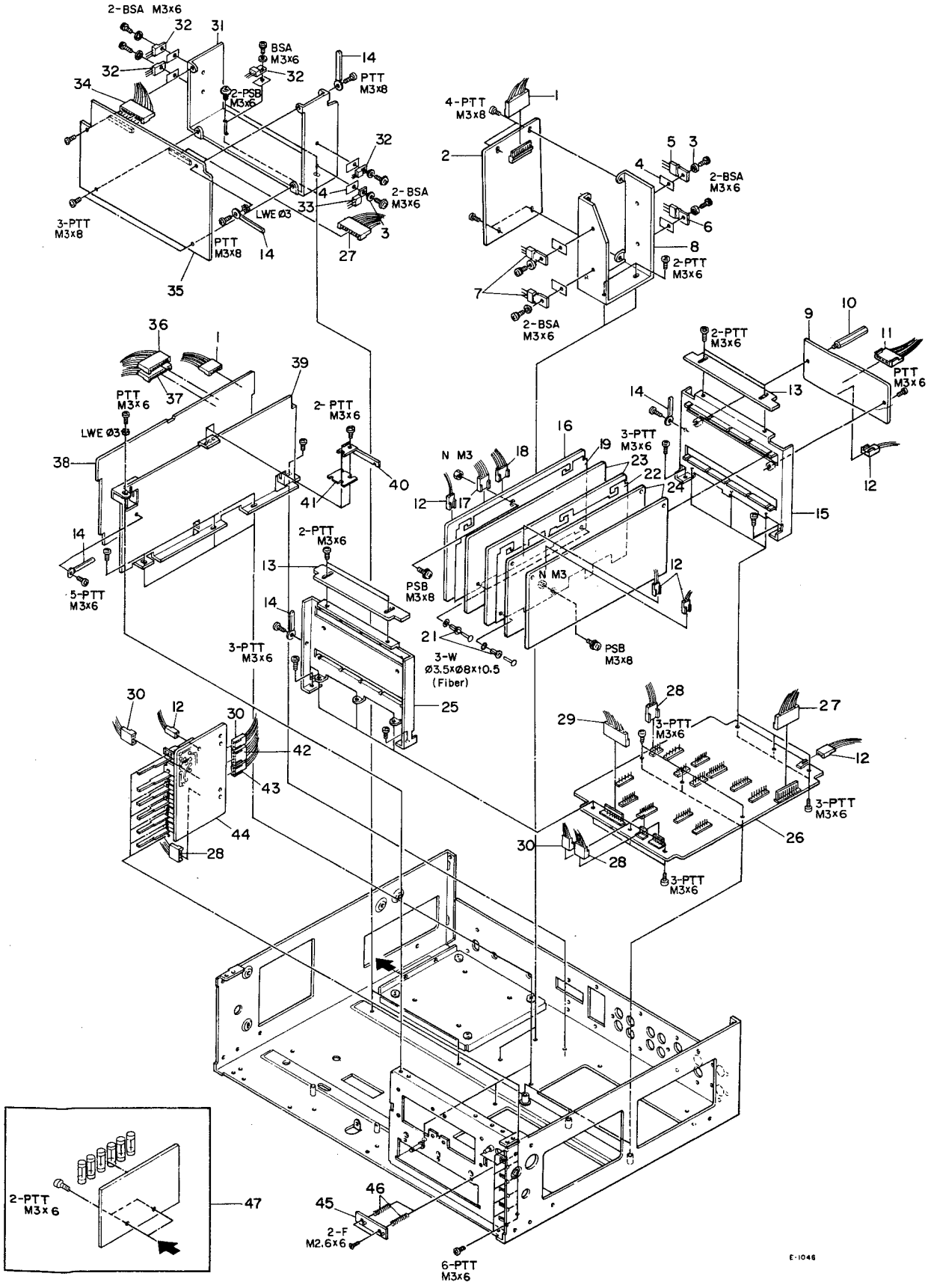
EXPLODED VIEW - 4



Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 1	*5143089000	Diode, W03C	
4 - 2	5163034000	Solenoid, C	
4 - 3	5163033000	Solenoid, B	
4 - 4	*5581038000	Retainer, Cord; A	
4 - 5	*5534593000	Grommet	
4 - 6	*5544908000	Spacer, A	
4 - 7	*5555310000	Lever, Solenoid; B	
4 - 8	*5555309000	Lever, Solenoid; A	
4 - 9	*5544755000	Pin, Lever	
4 -10	*5552277000	Bracket, Solenoid	
4 -11	*5520358000	Spring, Pinch Roller Lever	
4 -12	*5555417000	Lever, Pinch Roller; A	
4 -13	*5555427000	Lever, Slide; B	
4 -14	*5520364000	Spring, Slide Lever	
4 -15	*5555426000	Lever, Slide; A	
4 -16	*5544850000	Collar	
4 -17	*5544852000	Collar, B	
4 -18	*5544851000	Collar, A	
4 -19	*5504610100	Lever Assy, Brake; A	
4 -20	*5555295000	Lever, Relay	
4 -21	*5524186000	Spring, Record Preventing; C	
4 -22	*5555423000	Cam, Brake	
4 -23	5520363000	Spring, Brake Cam	
4 -24	*5544857000	Pin, Lever; A	
4 -25	*5544858000	Pin, Lever; B	
4 -26	*5555425000	Lever, Pinch Roller; S	
4 -27	*5555424000	Lever, Pinch Roller; T	
4 -28	*5168707100	PCB Assy, CONNECTING B	
4 -29		(Not used)	
4 -30	7105127100	Capstan Motor, DC Servo	
4 -31	*5504556000	Bearing Assy, Capstan	
4 -32	*5553227000	Plate Assy, Capstan Supporting	
4 -33	*5544757000	Stud	
4 -34	*5504562100	Lever Assy, Brake; B	
4 -35	*5555301000	Lever	
4 -36	5534504000	Belt, Capstan Drive; A	
4 -37	5504563000	Capstan Assy, T	
4 -38	5534505000	Belt, Capstan Drive; B	
4 -39	5504558000	Capstan Assy, S	
4 -40	*5158055000	PCB Assy, MRE	
4 -41	*5504555000	Holder Assy, Relay Pulley	
4 -42	*5555315000	Plate, Lock	
4 -43	5504557000	Holder, Capstan	
4 -44	5504554000	Pulley Assy, Relay; A	
4 -45	5555413000	Ring, Capstan	
4 -46	*5555302000	Bracket, Brake Solenoid	
4 -47	5163032000	Solenoid, A	
4 -48	5200001000	PCB Assy, CONNECTING A	
4 -49	5520362000	Spring, Brake	
4 -50	*5555422000	Plate, Brake	
4 -51	5530011200	Shoe, Brake	

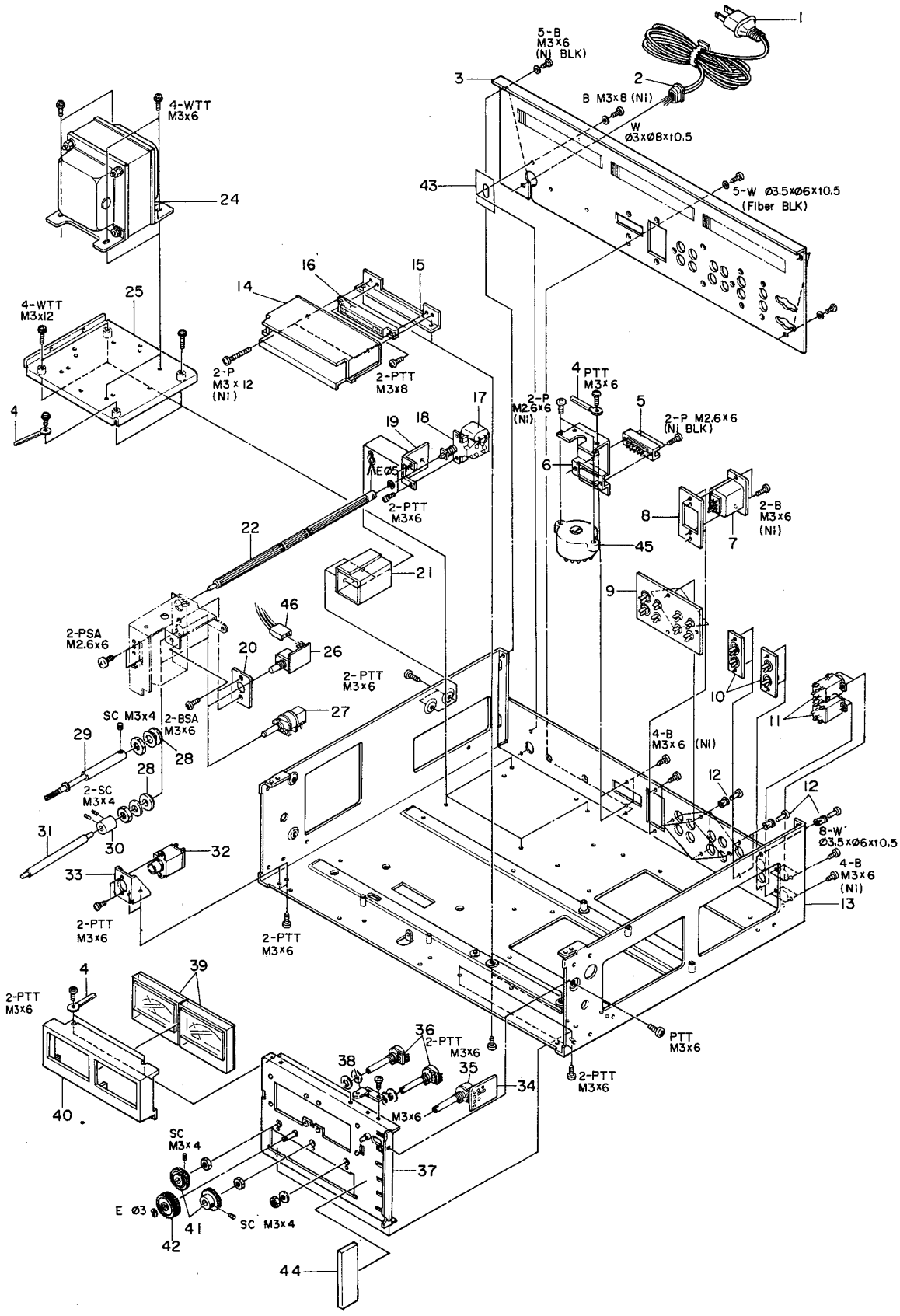
EXPLODED VIEW - 5



Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
5 - 1	*5522172000	Connector, Socket; 10P	
5 - 2	5168705100	PCB Assy, REEL MOTOR CONTROL	
5 - 3	*5033295000	Tube, Insulating	
5 - 4	*5033291000	Plate, Insulating	
5 - 5	*5145087000	Transistor, 2SD313E (Q660)	Part of 5 - 2
5 - 6		(Not used)	
5 - 7	*5042537000	Transistor, 2SA634L (Q651, Q652, Q653)	Part of 5 - 2
5 - 8	*5553239000	Heat Sink, B	
5 - 9	5200005000	PCB Assy, MIC AMP	
5 -10	*5544911000	Stay, Bracket	
5 -11	*5122171000	Connector, Socket; 9P	
5 -12	*5122165000	Connector, Socket; 3P	
5 -13	*5555338000	Plate, PCB	
5 -14	*5581038000	Retainer, Cord; A	
5 -15	*5504653000	Bracket Assy, A	
5 -16	*5200000500	PCB Assy, OSC	
5 -17	*5122225000	Connector, Socket; 6P (BLK)	
5 -18	*5122168000	Connector, Socket; 6P (WHT)	
5 -19	*5553248000	Paper, Shield; B	
5 -20		(Not used)	
5 -21	*5534583000	Push Rivet, Small	
5 -22	*5553247000	Paper, Shield; A	
5 -23	5200000300	PCB Assy, RECORD AMP	
5 -24	5200005100	PCB Assy, PLAYBACK AMP	
5 -25	*5552280000	Bracket, PCB; A	
5 -26	5168703100	PCB Assy, MOTHER; A	
5 -27	*5122176000	Connector, Socket; 14P	
5 -28	*5122167000	Connector, Socket; 5P	
5 -29	*5122174000	Connector, Socket; 12P	
5 -30	*5122166000	Connector, Socket; 4P	
5 -31	*5553238000	Heat Sink, A	
5 -32	*5145087000	Transistor, 2SD288 (Q901, Q904, Q910)	Part of 5 - 35
5 -33	*5042537000	Transistor, 2SA634L (Q915)	Part of 5 - 35
5 -34	*5122347000	Connector, Socket; 9P	
5 -35	5200000800	PCB Assy, POWER SUPPLY	
5 -36	*5122290100	Connector, Socket; 12P (RED)	
5 -37	*5122231000	Connector, Socket; 12P (BLK)	
5 -38	5200000700	PCB Assy, CONTROL	
5 -39	*5552279000	Angle, Side	
5 -40	*5555525000	Angle, PCB	
5 -41	*5555337000	Plate, PCB; C	
5 -42	*5122170000	Connector, Socket; 8P	
5 -43		(Not used)	
5 -44	*5200000600	PCB Assy, LEVER SW	
5 -45	*5168701000	PCB Assy, LED	
	*5167701000	PCB, LED	Part of 5 - 45
	5143047000	LED (RED)	Part of 5 - 45
5 -46	*5524082000	Spring, LED; B	
5 -47	*5168708100	PCB Assy, FUSE	U.S.A., CANADA
	*5167708100	PCB	U.S.A., CANADA
	*5041237000	Holder, Fuse	U.S.A., CANADA
	*5142091000	Fuse, 250V 3A (F1 ~ F3)	U.S.A., CANADA
	*5142113000	Fuse, 250V 1.6A (F4, F5)	U.S.A., CANADA
	*5041145000	Fuse, 250V 1A (F6)	U.S.A., CANADA
	*5168785000	PCB Assy, FUSE	EUROPE, U.K., AUSTRALIA
	*5167785000	PCB	EUROPE, U.K., AUSTRALIA
	*5142087000	Holder, Fuse	EUROPE, U.K., AUSTRALIA
	*5041155000	Fuse, 250V 2A (F1)	EUROPE, U.K., AUSTRALIA
	*5142171000	Fuse, 250V 2.5A (F2, F3)	EUROPE, U.K., AUTRALIA
	*5041141000	Fuse, 250V 1A (F4 ~ F6)	EUROPE, U.K., AUSTRALIA

EXPLODED VIEW - 6

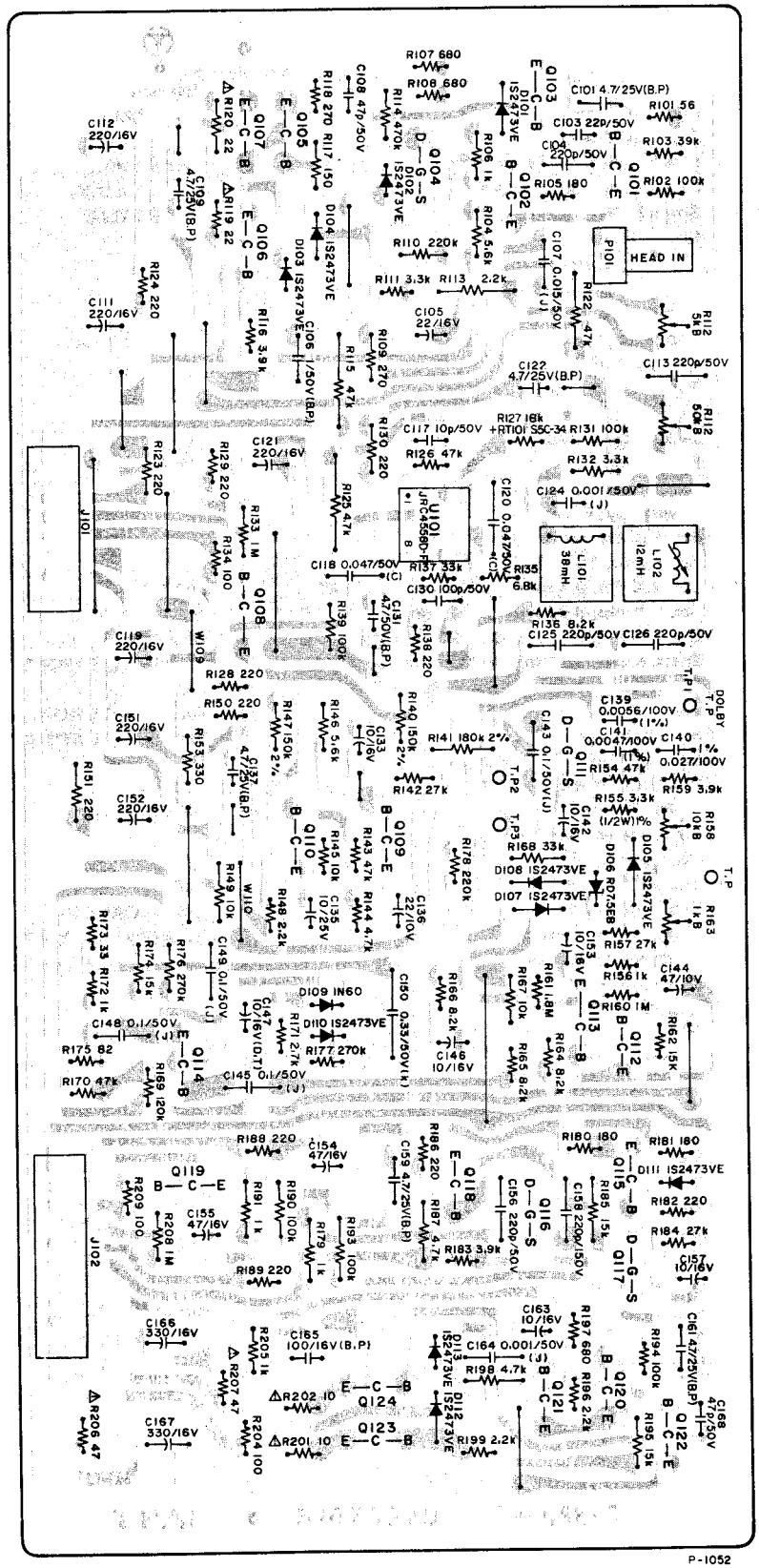


Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
6 - 1	⚠*5128034000	Cord, AC Power	JAPAN, GENERAL EXPORT
	⚠*5128075000	Cord, AC Power	U.S.A., CANADA
	⚠*5128017000	Cord, AC Power	EUROPE
	⚠*5128035000	Cord, AC Power	AUSTRALIA
	⚠*5128040000	Cord, AC Power	U.K.
6 - 2	*5530047000	Strain Relief, AC Power Cord	All except EUROPE, AUSTRALIA, U.K.
	*5530054000	Strain Relief, AC Power Cord	EUROPE, U.K.
	*5534269000	Strain Relief, AC Power Cord	AUSTRALIA
6 - 3	*5552288000	Chassis, Rear	
6 - 4	*5581038000	Retainer, Cord; A	
6 - 5	*5043841100	Connector, Socket; 12P	
6 - 6	*5555340000	Bracket, Connector; A	
6 - 7	*5122339000	Connector, Socket; 6P	
6 - 8	*5555344000	Bracket, Connector, B	
6 - 9	*5126028000	Terminal Assy, 8P	
6 -10	*5043463200	Jack, Pin; 2P	
6 -11	5124023000	Jack, Phone; Single	
6 -12	*5534878000	Push Rivet, B	
6 -13	*5502186000	Chassis Assy, Ampl.	
6 -14	*5503146000	Cover Assy, CX-8	
6 -15	*5555336000	Bracket, Connector	
6 -16	*5122337000	Connector, 14P	
6 -17	⚠*5052905000	Spark Killer, 0.1 mfd + 120 ohm 400V AC	JAPAN
	⚠*5052906000	Spark Killer, 0.033 mfd + 120 ohm 125V AC	U.S.A.
	⚠*5052911000	Spark Killer, 0.033 mfd + 120 ohm 250V AC	CANADA
	⚠*5052907000	Spark Killer, 0.01 mfd + 300 ohm 400V AC	GENERAL EXPORT
	⚠*5052908000	Spark Killer, 4700 pfd 250V AC	EUROPE
6 -18	⚠ 5134046000	Switch, Power	All except EUROPE, AUSTRALIA, U.K.
	⚠ 5134011000	Switch, Power	EUROPE, AUSTRALIA, U.K.
6 -19	*5555339000	Bracket, Power Switch	
6 -20	*5800011500	Bracket, Timer Switch	
6 -21	*5555596000	Cover, Switch	AUSTRALIA
6 -22	*5534516000	Link, Power Switch	
6 -23		(Not used)	
6 -24	⚠ 5152161000	Transformer, Power	JAPAN
	⚠ 5152162000	Transformer, Power	U.S.A., CANADA
	⚠ 5152165000	Transformer, Power	GENERAL EXPORT
	⚠ 5152166000	Transformer, Power	EUROPE, U.K., AUSTRALIA
6 -25	*5504570000	Bracket Assy, Transformer	
6 -26	*5200000100	PCB Assy, SWITCH	
	*5210000100	PCB, SWITCH	Part of 6 - 26
	5133019000	Switch, Rotary	Part of 6 - 26
	*5122128000	Connector, Plug; 4P	Part of 6 - 26
6 -27	5150209000	Var. Res., 10 k ohm - B (w/switch)	
6 -28	*5544904000	Collar, D	
6 -29	*5800011600	Shaft, Timer SW	
6 -30	*5544788000	Bush, Connecting	
6 -31	*5544789000	Shaft, Connecting; A	
6 -32	5124022000	Jack, Phoone; 3 cond.	
6 -33	*5555331000	Holder, Jack	
6 -34	*5168697100	PCB Assy, OUTPUT VR	
6 -35	*5150224000	Var. Res., 20 k ohm - A x 2	Part of 6 - 34
6 -36	*5150210000	Var. Res., 100 k ohm - A	
6 -37	*5503145000	Chassis Assy, Front	
6 -38	*5555335000	Bracket, Top Cover; B	
6 -39	5165023100	Meter, Peak	
6 -40	*5533137000	Escutcheon, Meter	
6 -41	5504568000	Gear Assy, A	
6 -42	5504569200	Gear Assy, Friction	
6 -43	*5564393000	Mask, Cord	
6 -44	*5555490000	Mask	
6 -45	*5131007000	Selector, Voltage	GENERAL EXPORT
6 -46	*5122166000	Connector, Socket; 4P	

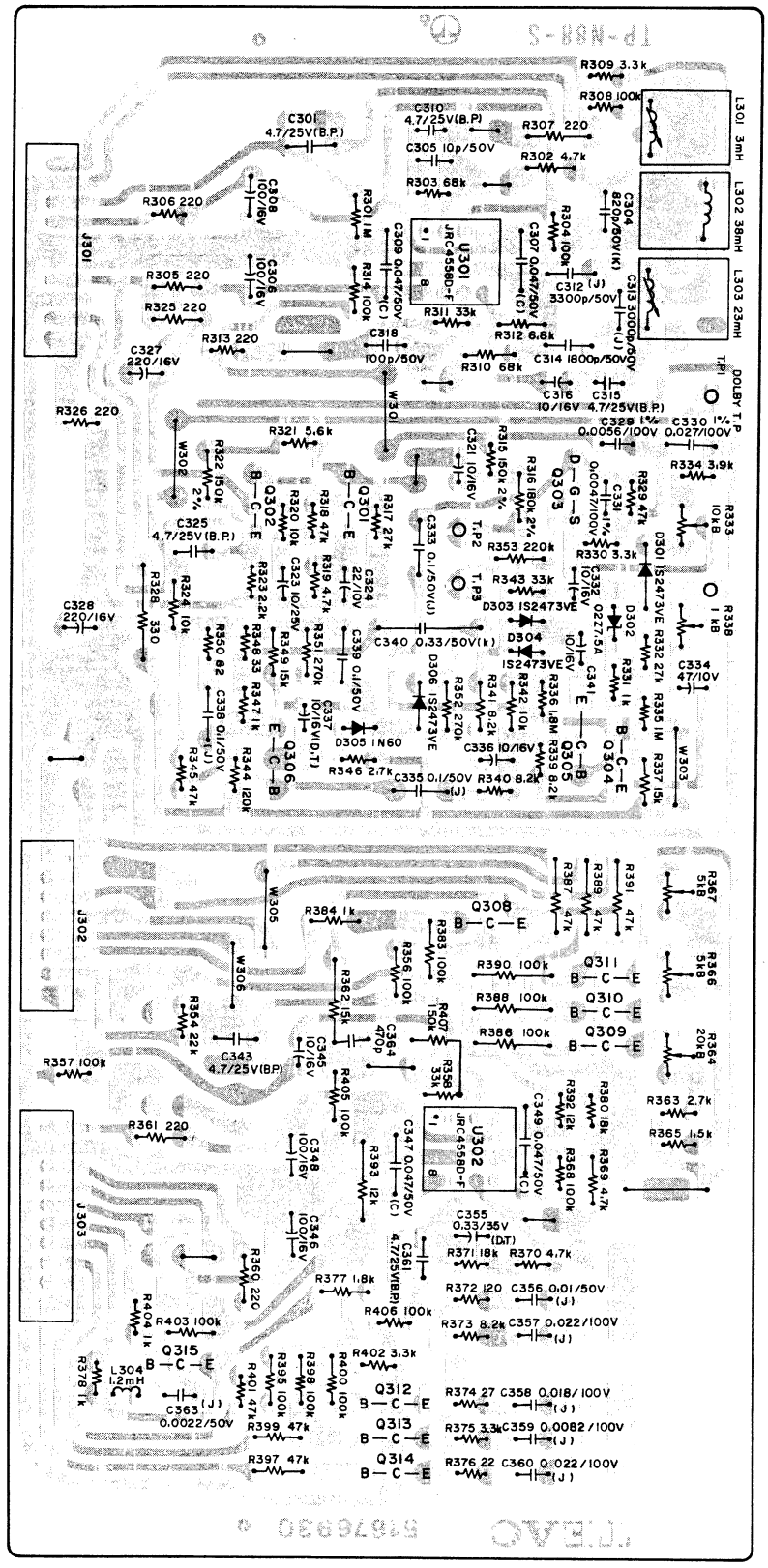
7 PC BOARDS AND PARTS LIST

PLAYBACK AMP PCB ASSY



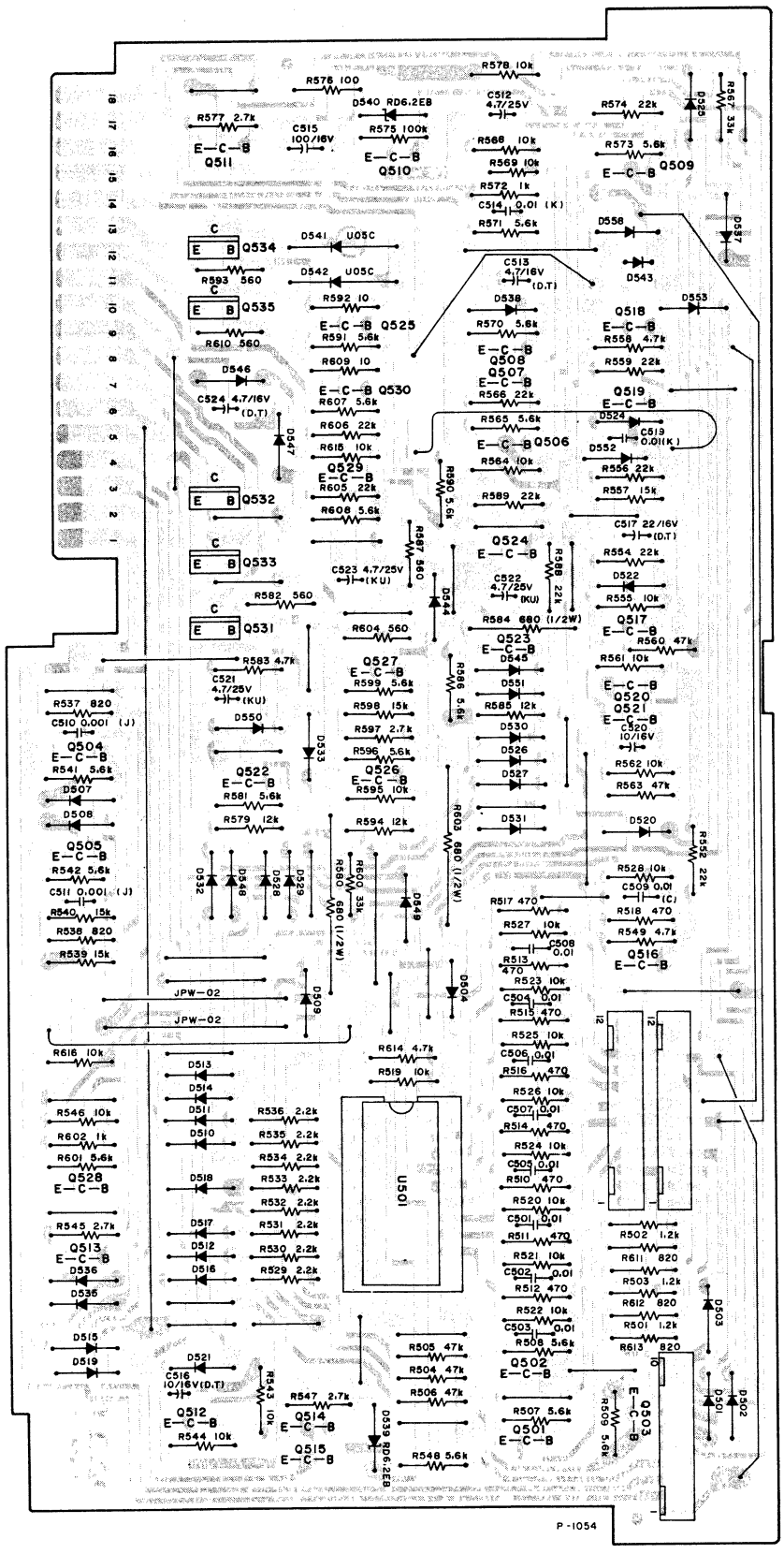
P-1052

RECORD AMP PCB ASSY

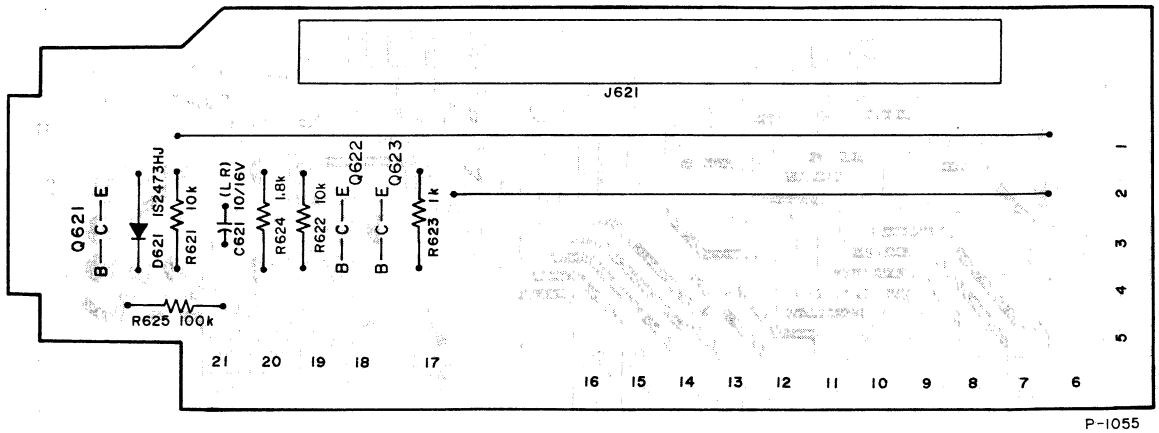


P-1053.

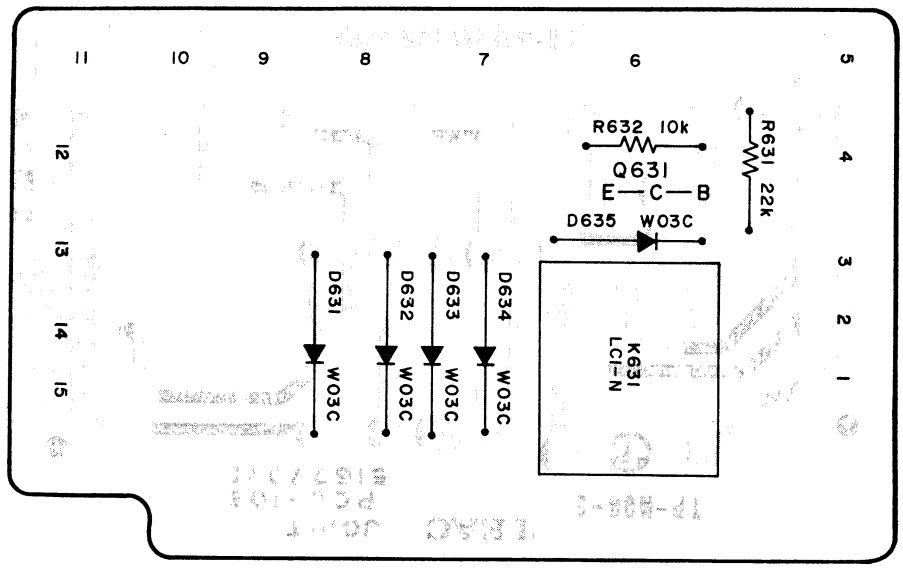
CONTROL PCB ASSY



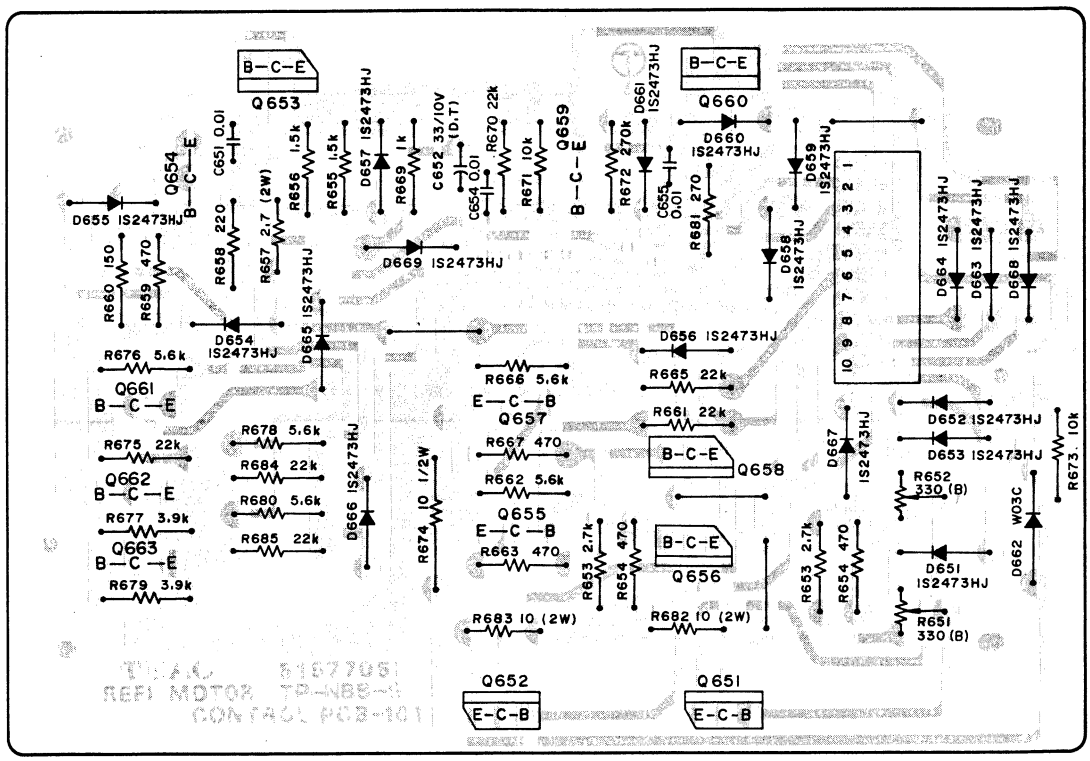
CONNECTING PCB A ASSY



CONNECTING PCB B ASSY

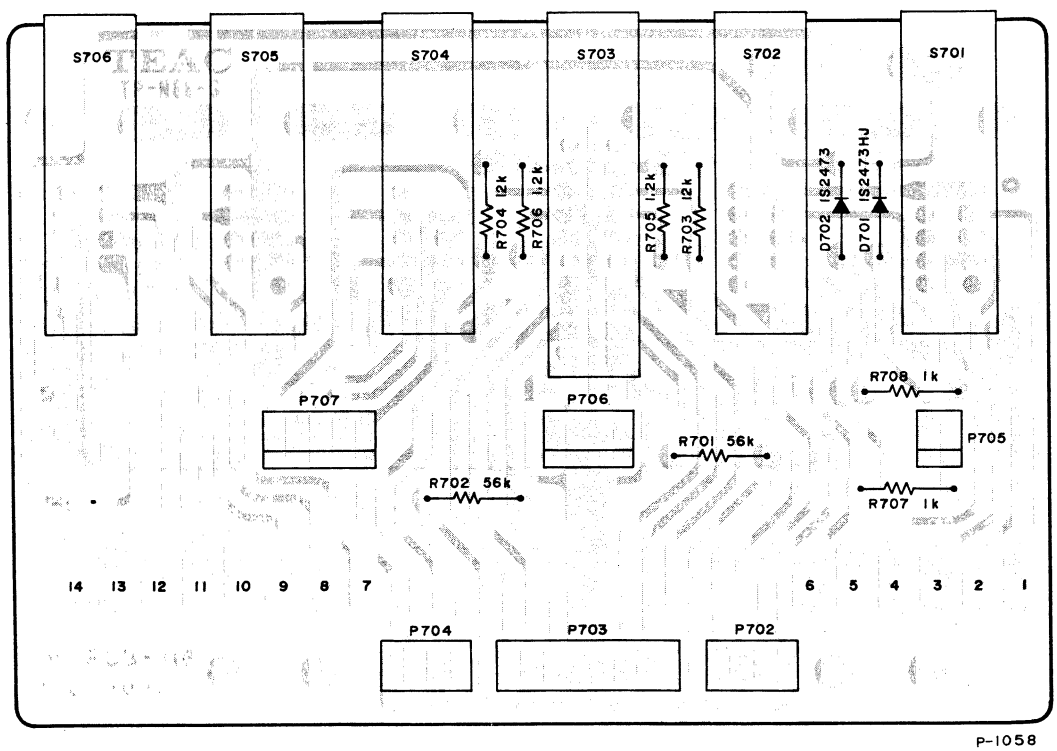


REEL MOTOR CONTROL ASSY



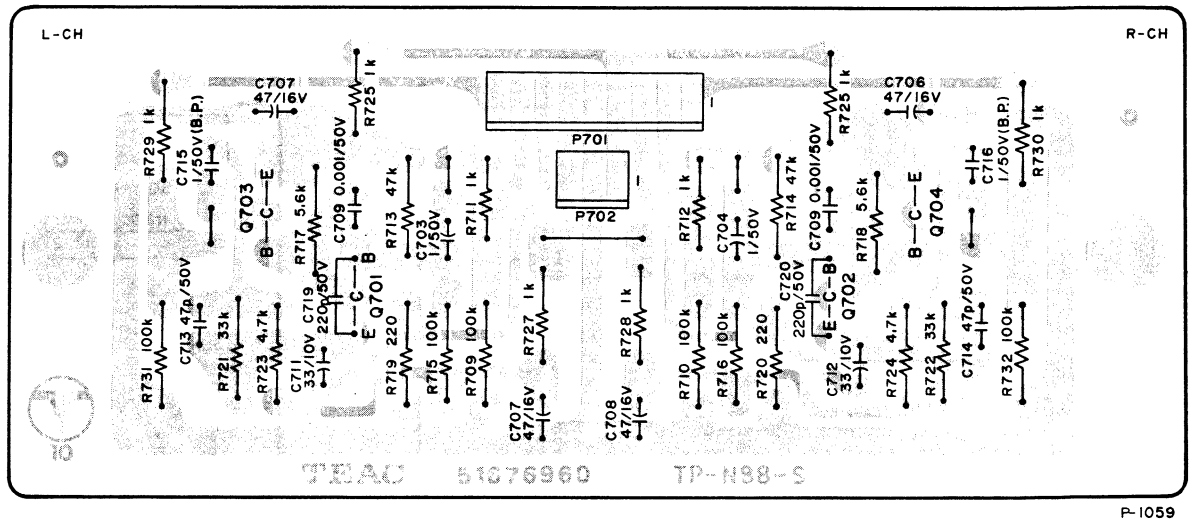
P-1057

LEVER SW PCB ASSY

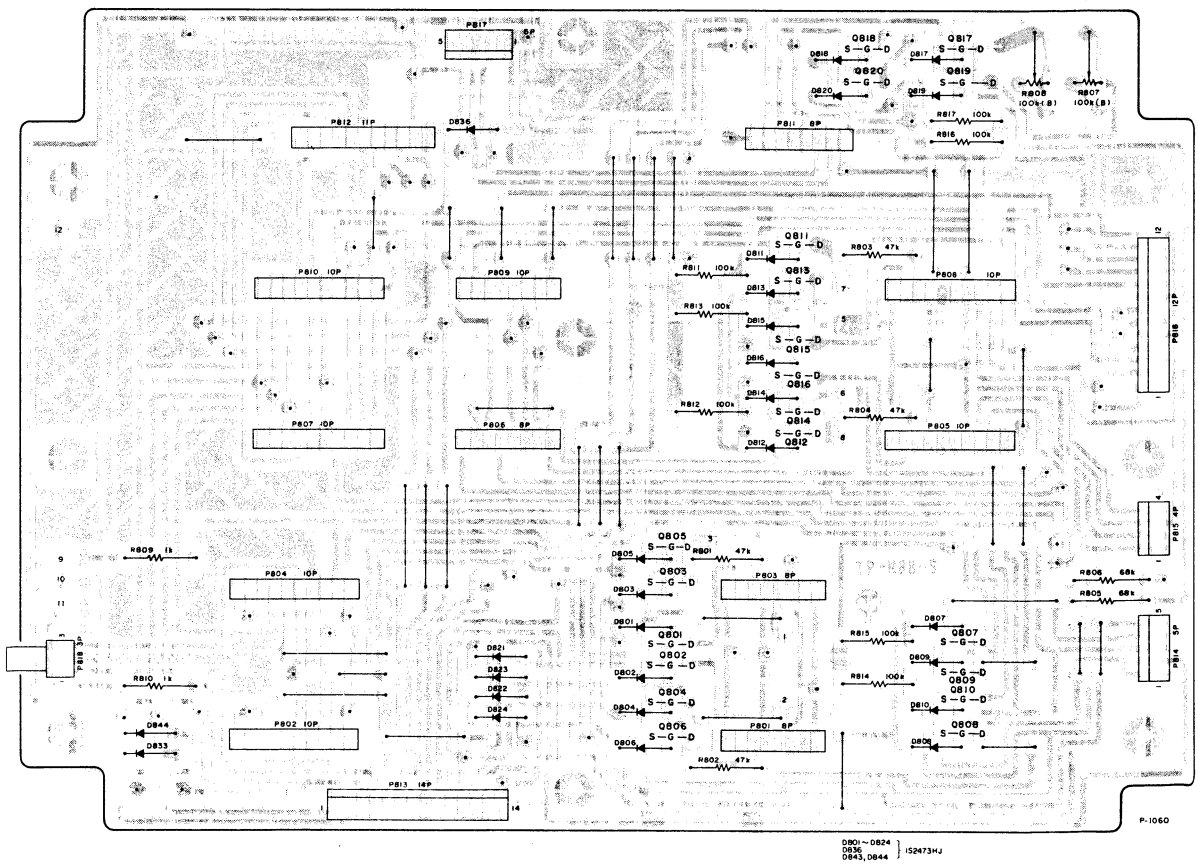


P-1058

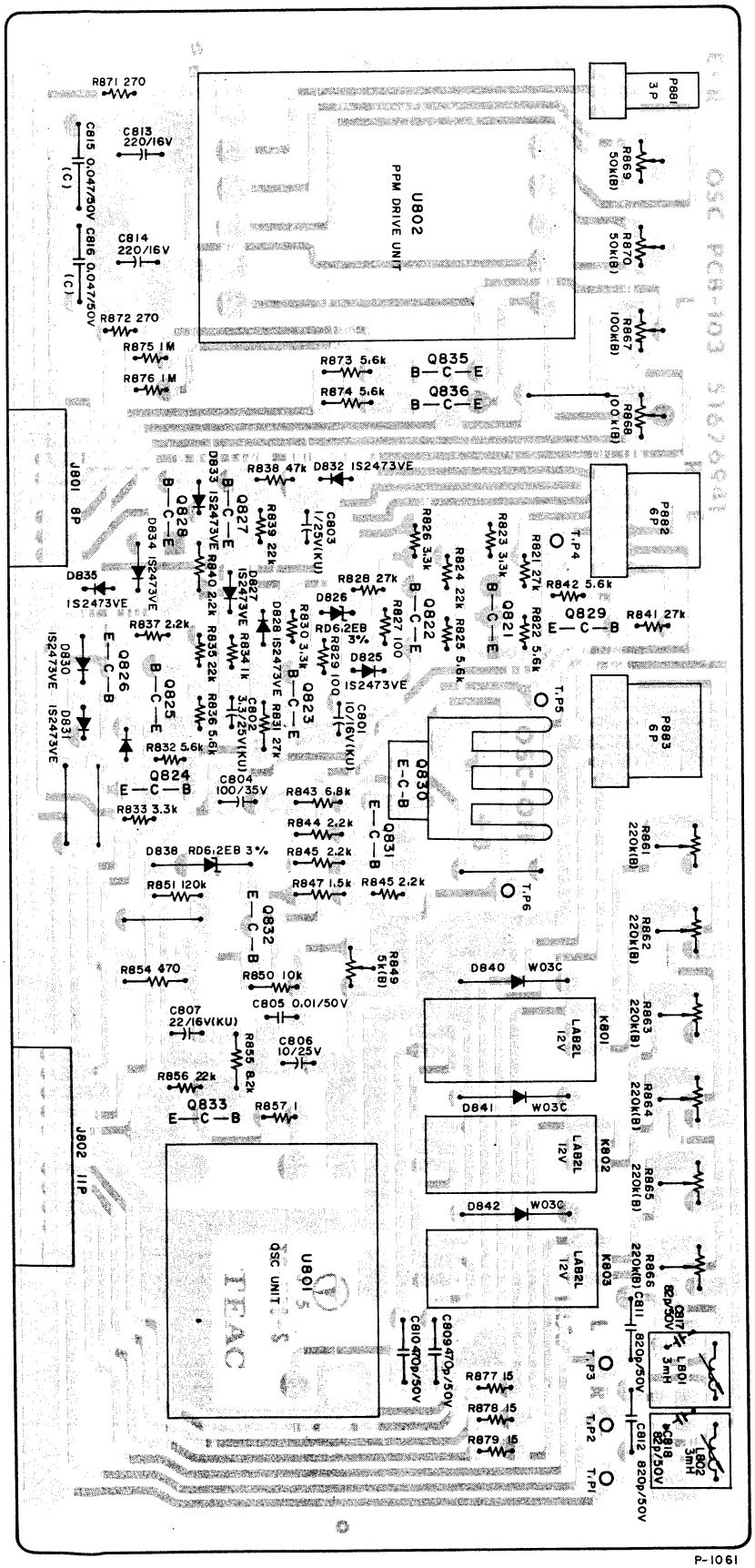
MIC AMP PCB ASSY



MOTHER PCB A ASSY

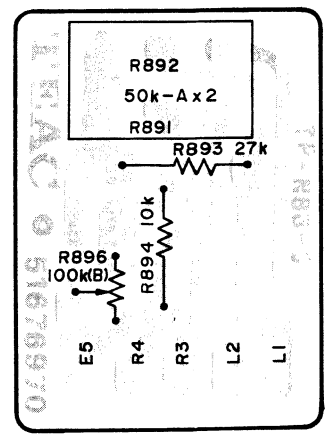


OSC PCB ASSY



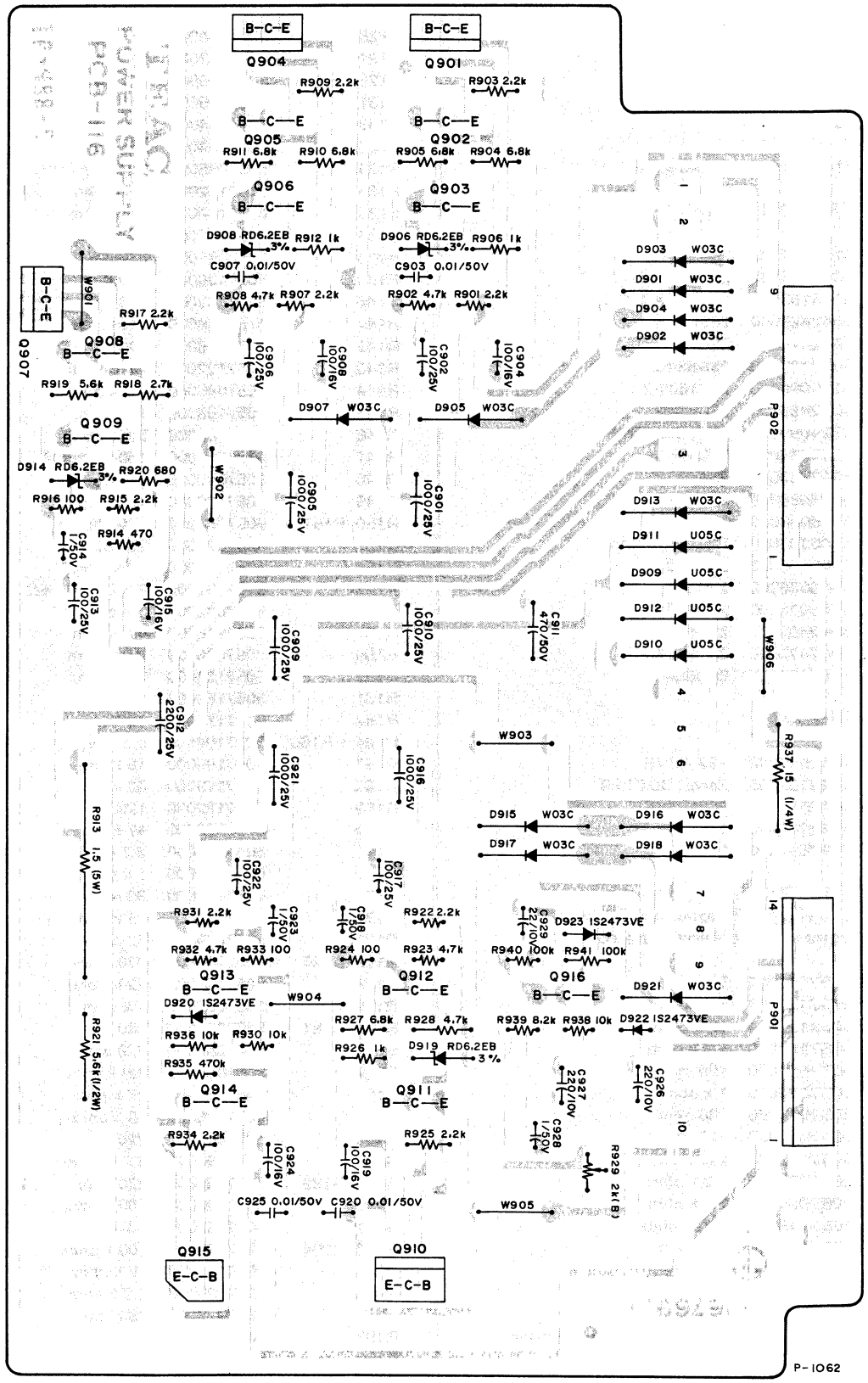
P-1061

OUTPUT VR PCB ASSY



P-450

POWER SUPPLY PCB ASSY



PLAYBACK AMP PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200005100	PCB Assy
	5167692000	PCB
	IC	
U101	5147024000	JRC4558D-F
	TRANSISTORS	
Q101, Q102	5145117000	2SA991F
Q103	5042495000	2SC1222E
Q104	5145103000	FET, 2SK68AM
Q105	5042495000	2SC1222E
Q106	5042475000	2SC1384Q
Q107	5042490000	2SA684Q
Q108	5145086000	2SC1636-2
Q109, Q110	5042486000	2SC536G
Q111	5724099100	FET, 2SK30DB
Q112	5042486000	2SC536G
Q113	5042553000	2SA733P
Q114	5042486000	2SC536G
Q115	5145038000	2SA750E
Q116, Q117	5145103000	FET, 2SK68AM
Q118	5145038000	2SA750E
Q119	5145086000	2SC1636-2
Q120, Q121	5145038000	2SA750E
Q122	5042495000	2SC1222E
Q123	5042475000	2SC1384Q
Q124	5042490000	2SA684Q
	DIODES	
D101～Q105	5042517000	1S2473VE
D106	5143122000	Zener, RD7.5EB
D107, D108	5042517000	1S2473VE
D109	5042213000	1N60
D110～D113	5042517000	1S2473VE
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R101	5057052000	56 ohm
R102	5057130000	100 k ohm
R103	5057120000	39 k ohm
R104	5057100000	5.6 k ohm
R105	5057064000	180 ohm
R106	5057082000	1 k ohm
R107, R108	5057078000	680 ohm
R109	5057068000	270 ohm
R110	5057138000	220 k ohm
R111	5057094000	3.3 k ohm
R113	5057090000	2.2 k ohm
R114	5057146000	470 k ohm
R115	5057122000	47 k ohm
R116	5057096000	3.9 k ohm
R117	5057062000	150 ohm
R118	5057068000	270 ohm
R119, R120	⚠5181832000	22 ohm Non Flammable
R122	5057122000	47 k ohm
R123, R124	5057066000	220 ohm
R125	5057098000	4.7 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R126	5057124000	56 k ohm
R127	5181512000	18 k ohm
R128～R130	5057066000	220 ohm
R131	5057130000	100 k ohm
R132	5057094000	3.3 k ohm
R133	5057154000	1 M ohm
R134	5057058000	100 ohm
R135	5057102000	6.8 k ohm
R136	5057104000	8.2 k ohm
R137	5057118000	33 k ohm
R138	5057066000	220 ohm
R139	5057130000	100 k ohm
R140	5181385000	150 k ohm 2%, Metal Film
R141	5181386000	180 k ohm 2%, Metal Film
R142	5057116000	27 k ohm
R143	5057122000	47 k ohm
R144	5057098000	4.7 k ohm
R145	5057106000	10 k ohm
R146	5057100000	5.6 k ohm
R147	5181385000	150 k ohm 2%, Metal Film
R148	5057090000	2.2 k ohm
R149	5057106000	10 k ohm
R150, R151	5057066000	220 ohm
R153	5057070000	330 ohm
R154	5057122000	47 k ohm
R155	5181391000	3.3 k ohm ½W 1%, Metal Film
R156	5057082000	1 k ohm
R157	5057116000	47 k ohm
R159	5057096000	3.9 k ohm
R160	5057154000	1 M ohm
R161	5057159000	1.8 M ohm
R162	5057110000	15 k ohm
R164～R166	5057104000	8.2 k ohm
R167	5057106000	10 k ohm
R168	5057118000	33 k ohm
R169	5057132000	120 k ohm
R170	5057122000	47 k ohm
R171	5057092000	2.7 k ohm
R172	5057082000	1 k ohm
R173	5057046000	33 ohm
R174	5057110000	15 k ohm
R175	5057056000	82 ohm
R176, R177	5057140000	270 k ohm
R178	5057138000	220 k ohm
R179	5057082000	1 k ohm
R180, R181	5057064000	180 ohm
R182	5057066000	220 ohm
R183	5057096000	3.9 k ohm
R184	5057116000	27 k ohm
R185	5057110000	15 k ohm
R186	5057066000	220 ohm
R187	5057098000	4.7 k ohm
R188, R189	5057066000	220 ohm
R190	5057130000	100 k ohm
R191	5057082000	1 k ohm
R193, R194	5057130000	100 k ohm
R195	5057110000	15 k ohm
R196	5057090000	2.2 k ohm
R197	5057078000	680 ohm
R198	5057098000	4.7 k ohm
R199	5057090000	2.2 k ohm
R201, R202	5181824000	10 ohm Non Flammable
R204	5057058000	100 ohm

REF. NO.	PARTS NO.	DESCRIPTION
R205	5057082000	1 k ohm
R206, R207	5181840000	47 ohm Non Flammable
R208	5057154000	1 M ohm
R209	5057058000	100 ohm
	CAPACITORS	
C101	5055909000	Elec. 4.7 mfd 25V(B.P.)
C103	5054382000	Dip. Mica 22 pfd 50V
C104	5054745000	Dip. Mica 220 pfd 50V
C105	5055488000	Elec. 22 mfd 16V
C106	5055942000	Elec. 1 mfd 50V(Bi-polar)
C107	5054887000	Mylar 0.015 mfd 50V 5%
C108	5054742000	Dip. Mica 47 pfd 50V
C109	5055909000	Elec. 4.7 mfd 25V(B.P.)
C111, C112	5055439000	Elec. 220 mfd 16V
C113	5054745000	Dip. Mica 220 pfd 50V
C117	5054740000	Dip. Mica 10 pfd 50V
C118	5054230000	Ceramic 0.047 mfd 50V 5%
C119	5055439000	Elec. 220 mfd 16V
C120	5054230000	Ceramic 0.047 mfd 50V 5%
C121	5055439000	Elec. 220 mfd 16V
C122	5055909000	Elec. 4.7 mfd 25V(B.P.)
C124	5054878000	Mylar 0.001 mfd 50V 5%
C125, C126	5054745000	Dip. Mica 220 pfd 50V
C130	5054744000	Dip. Mica 100 pfd 50V
C131	5055909000	Elec. 4.7 mfd 25V(B.P.)
C133	5055405000	Elec. 10 mfd 16V
C135	5055404000	Elec. 10 mfd 25V
C136	5055472000	Elec. 22 mfd 10V
C137	5055909000	Elec. 4.7 mfd 25V(B.P.)
C139	5170013000	Meta. Polyst. 0.0056 mfd 100V 1%
C140	5170014000	Meta. Polyst. 0.027 mfd 100V 1%
C141	5170012000	Meta. Polyst. 0.0047 mfd 100V 1%
C142	5055405000	Elec. 10 mfd 16V
C143	5054804000	Mylar 0.1 mfd 50V 10%
C144	5055554000	Elec. 47 mfd 10V
C145	5054804000	Mylar 0.1 mfd 50V 10%
C146	5055405000	Elec. 10 mfd 16V
C147	5054656100	Dip. Tant. 10 mfd 16V
C148	5054928000	Mylar 0.1 mfd 50V 5%
C149	5054804000	Mylar 0.1 mfd 50V 10%
C150	5054883000	Meta. Mylar 0.33 mfd 50V 10%
C151, C152	5055439000	Elec. 220 mfd 16V
C153	5055405000	Elec. 10 mfd 16V
C154, C155	5055401000	Elec. 47 mfd 16V
C156	5054745000	Dip. Mica 220 pfd 50V
C157	5055405000	Elec. 10 mfd 16V
C158	5054745000	Dip. Mica 220 pfd 50V
C159	5055909000	Elec. 4.7 mfd 25V(B.P.)
C161	5055909000	Elec. 4.7 mfd 25V(B.P.)
C163	5055405000	Elec. 10 mfd 16V
C164	5054878000	Mylar 0.001 mfd 50V 5%
C165	5055930000	Elec. 100 mfd 16V(Bi-polar)
C166, C167	5055484000	Elec. 330 mfd 16V
C168	5054742000	Dip. Mica 47 pfd 50V
	VARIABLE RESISTORS	
R112	5150153000	Semi-fixed, 5 k ohm - B
R121	5150156000	Semi-fixed, 50 k ohm - B
R158	5150154000	Semi-fixed, 10 k ohm - B
R163	5150151000	Semi-fixed, 1 k ohm - B

REF. NO.	PARTS NO.	DESCRIPTION
	COILS	
L101	5056666000	Choke, 38 mH
L102	5160043000	Trap, 12 mH
	MISCELLANEOUS	
	5143128000	Thermistor, S5C-34
J101	5122379000	Connecotor, Socket; 8P
J102	5122381000	Connector, Socket; 10P
P101	5122146000	Connector, 3P
	5724042000	Pin, F3 type (8 used)

RECORD AMP PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200000300	PCB Assy
	5167693000	PCB
	ICs	
U301, U302	5147024000	JRC4558D-F
	TRANSISTORS	
Q301, Q302	5042486000	2SC536G
Q303	5724099100	FET, 2SK30DB
Q304	5042486000	2SC536G
Q305	5042553000	2SA733P
Q306	5042486000	2SC536G
Q308 ~ Q315	5042486000	2SC536G
	DIODES	
D301	5042517000	1S2473VE
D302	5143122000	Zener, RD7.5EB
D303, D304	5042517000	1S2473VE
D305	5042213000	1N60
D306	5042517000	1S2473VE
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R301	5057154000	1 M ohm
R302	5057098000	4.7 k ohm
R303	5057126000	68 k ohm
R304	5057130000	100 k ohm
R305 ~ R307	5057066000	220 ohm
R308	5057130000	100 k ohm
R309	5057094000	3.3 k ohm
R310	5057126000	68 k ohm
R311	5057118000	33 k ohm
R312	5057102000	6.8 k ohm
R313	5057066000	220 ohm
R314	5057130000	100 k ohm
R315	5181385000	150 k ohm 2%, Metal Film
R316	5181386000	180 k ohm 2%, Metal Film

REF. NO.	PARTS NO.	DESCRIPTION
R317	5057116000	27 k ohm
R318	5057122000	47 k ohm
R319	5057098000	4.7 k ohm
R320	5057106000	10 k ohm
R321	5057100000	5.6 k ohm
R322	5180385000	150 k ohm 2%, Metal Film
R323	5057090000	2.2 k ohm
R324	5057106000	10 k ohm
R325, R326	5057066000	220 ohm
R328	5057070000	330 ohm
R329	5057122000	47 k ohm
R330	5181391000	3.3 k ohm ½W 1%, Metal Film
R331	5057082000	1 k ohm
R332	5057116000	27 k ohm
R334	5057096000	3.9 k ohm
R335	5057154000	1 M ohm
R336	5057159000	1.8 M ohm
R337	5057110000	15 k ohm
R339 ~ R341	5057104000	8.2 k ohm
R342	5057106000	10 k ohm
R343	5057118000	33 k ohm
R344	5057132000	120 k ohm
R345	5057122000	47 k ohm
R346	5057092000	2.7 k ohm
R347	5057082000	1 k ohm
R348	5057046000	33 ohm
R349	5057110000	15 k ohm
R350	5057056000	82 ohm
R351, R352	5057140000	270 k ohm
R353	5057138000	220 k ohm
R354	5057114000	22 k ohm
R356	5057130000	100 k ohm
R358	5057118000	33 k ohm
R360, R361	5057066000	220 ohm
R362	5057110000	15 k ohm
R363	5057092000	2.7 k ohm
R365	5057086000	1.5 k ohm
R368	5057130000	100 k ohm
R369, R370	5057098000	4.7 k ohm
R371	5057112000	18 k ohm
R372	5057060000	120 ohm
R373	5057104000	8.2 k ohm
R374	5057044000	27 ohm
R375	5057094000	3.3 k ohm
R376	5057044000	22 ohm
R377	5057088000	1.8 k ohm
R378	5057082000	1 k ohm
R380	5057112000	18 k ohm
R383, R384	5057082000	1 k ohm
R386	5057130000	100 k ohm
R387	5057122000	47 k ohm
R388	5057130000	100 k ohm
R389	5057122000	47 k ohm
R390	5057130000	100 k ohm
R391	5057122000	47 k ohm
R392, R393	5057108000	12 k ohm
R395	5057130000	100 k ohm
R396	5057122000	47 k ohm
R398	5057130000	100 k ohm
R399	5057122000	47 k ohm
R400	5057130000	100 k ohm
R401	5057122000	47 k ohm
R402	5057094000	3.3 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R403	5057130000	100 k ohm
R404	5057082000	1 k ohm
R405, R406	5057130000	100 k ohm
R407	5181334000	150 k ohm

CAPACITORS

C301	5055909000	Elec.	4.7 mfd	25V(B.P.)
C304	5054344000	Polyst.	820 pfd	50V 10%
C305	5054740000	Dip. Mica	10 pfd	50V
C306	5055420000	Elec.	100 mfd	16V
C307	5054230000	Ceramic	0.047 mfd	50V
C308	5055420000	Elec.	100 mfd	16V
C309	5054230000	Ceramic	0.047 mfd	50V
C310	5055909000	Elec.	4.7 mfd	25V(B.P.)
C311	5055405000	Elec.	10 mfd	16V
C312	5059680000	Polyst.	3300 pfd	50V 5%
C313	5059681000	Polyst.	3000 pfd	50V 5%
C314	5054399000	Polyst.	1800 pfd	50V 5%
C315	5055909000	Elec.	4.7 mfd	25V(B.P.)
C318	5054744000	Dip. Mica	100 pfd	50V
C321	5055405000	Elec.	10 mfd	16V
C323	5055404000	Elec.	10 mfd	25V
C324	5055472000	Elec.	22 mfd	10V
C325	5055909000	Elec.	4.7 mfd	25V(B.P.)
C327, C328	5055439000	Elec.	220 mfd	16V
C329	5170013000	Meta. Polyst.	0.0056 mfd	100V 1%
C330	5170014000	Meta. Mylar	0.027 mfd	100V 1%
C331	5170012000	Meta. Mylar	0.0047 mfd	100V 1%
C332	5055405000	Elec.	10 mfd	16V
C333	5054928000	Mylar	0.1 mfd	50V 5%
C334	5055554000	Elec.	10 mfd	16V
C335	5054928000	Mylar	0.1 mfd	50V 5%
C336	5055405000	Elec.	10 mfd	16V
C337	5054656100	Dip. Tant.	10 mfd	16V
C338, C339	5054928000	Mylar	0.1 mfd	50V 5%
C340	5054883000	Meta. Mylar	0.33 mfd	50V 10%
C341	5055405000	Elec.	10 mfd	16V
C343	5055909000	Elec.	4.7 mfd	25V(B.P.)
C345	5055405000	Elec.	10 mfd	16V
C346	5055420000	Elec.	100 mfd	16V
C347	5054230000	Ceramic	0.047 mfd	50V
C348	5055420000	Elec.	100 mfd	16V
C349	5054230000	Ceramic	0.047 mfd	50V
C355	5170300000	Dip. Tant.	0.33 mfd	35V
C356	5054877000	Mylar	0.01 mfd	50V 5%
C357	5054898500	Mylar	0.022 mfd	100V 5%
C358	5054897000	Mylar	0.018 mfd	100V 5%
C359	5054894000	Mylar	0.0082 mfd	100V 5%
C360	5054898500	Mylar	0.022 mfd	100V 5%
C361	5055909000	Elec.	4.7 mfd	25V(B.P.)
C363	5054876000	Mylar	0.0022 mfd	50V 5%
C364	5173728000	Polypro.	470 pfd	100V 5%

VARIABLE RESISTORS

R333	5150154000	Semi-fixed, 10 k ohm - B
R338	5150151000	Semi-fixed, 1 k ohm - B
R364	5150154000	Semi-fixed, 10 k ohm - B
R366, R367	5150154000	Semi-fixed, 10 k ohm - B

REF. NO.	PARTS NO.	DESCRIPTION
	COILS	
L301	5160044000	Trap, 3 mH
L302	5056666000	Choke, 38 mH
L303	5056665000	Tap, 23 mH
L304	5056661100	Choke, 1.2 mH
	MISCELLANEOUS	
J301	5122381000	Connector, Socket; 10P
J302	5122379000	Connector, Socket; 8P
J303	5122381000	Connector, Socket; 10P
	5724042000	Pin, F3 type (8 used)
	5200000400	PCB Assy, PEAKING COIL
	5167698000	PCB
L305	5056635000	Coil, Record EQ; 8 mH
L306	5160041000	Coil, Record EQ; 2.4 mH
L307	5160042000	Coil, Record EQ; 3.6 mH

CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200000700	PCB Assy
	5167704100	PCB
	IC	
U501	5147050000	LSI, YM-27600
	TRANSISTORS	
Q501 ~ Q505	5145091000	2SC945AK
Q506	5042553000	2SA733P
Q507, Q508	5145091000	2SC945AK
Q509	5042553000	2SA733P
Q510 ~ Q515	5145091000	2SC945AK
Q516	5042553000	2SA733P
Q517	5145091000	2SC945AK
Q518	5042553000	2SA733P
Q519 ~ Q521	5145091000	2SC445AK
Q522, Q523	5042625000	2SC1318S
Q524	5145091000	2SC945AK
Q525	5145043000	2SA720Q
Q526	5142091000	2SC945AK
Q527	5042625000	2SC1318S
Q528, Q529	5142091000	2SC945AK
Q530	5145043000	2SA720Q
Q531 ~ Q535	5145087000	2SD313E
	DIODES	
D501 ~ D503	5143118000	1S2473HJ
D507 ~ D522	5143118000	1S2473HJ
D524 ~ D533	5143118000	1S2473HJ
D535 ~ D538	5143118000	1S2473HJ
D539, D540	5042554000	Zener, RD6.2EB
D541, D542	5143017000	U0-5C
D543	5042517000	1S2473VE

REF. NO.	PARTS NO.	DESCRIPTION
D544 ~ D553	5143118000	1S2473HJ

CARBON RESISTORS

All resistors are rated ±5% tolerance and ¼ watt unless otherwise noted.

R501 ~ R503	5183085000	1.2 k ohm	
R504 ~ R506	5183122000	47 k ohm	
R507 ~ R509	5183100000	5.6 k ohm	
R510 ~ R518	5183074000	470 ohm	
R519 ~ R528	5183106000	10 k ohm	
R529 ~ R536	5183090000	2.2 k ohm	
R537, R538	5183080000	820 ohm	
R539, R540	5183110000	15 k ohm	
R541, R542	5183100000	5.6 k ohm	
R543, R544	5183106000	10 k ohm	
R545	5183092000	2.7 k ohm	
R546	5183106000	10 k ohm	
R547	5183092000	2.7 k ohm	
R548	5183100000	5.6 k ohm	
R549	5183098000	4.7 k ohm	
R550	5183087000	1 k ohm	
R552	5183114000	22 k ohm	
R554	5183114000	22 k ohm	
R555	5183106000	10 k ohm	
R556	5183114000	22 k ohm	
R557	5183110000	15 k ohm	
R558	5183098000	4.7 k ohm	
R559	5183114000	22 k ohm	
R560	5183122000	47 k ohm	
R561, R562	5183106000	10 k ohm	
R563	5183122000	47 k ohm	
R564	5183106000	10 k ohm	
R565	5183100000	5.6 k ohm	
R566	5183114000	22 k ohm	
R567	5183118000	33 k ohm	
R568, R569	5183106000	10 k ohm	
R570, R571	5183100000	5.6 k ohm	
R572	5183082000	1 k ohm	
R573	5183100000	5.6 k ohm	
R574	5183114000	22 k ohm	
R575	5183130000	100 k ohm	
R576	5183058000	100 ohm	
R577	5183092000	2.7 k ohm	
R578	5183106000	10 k ohm	
R579	5183108000	12 k ohm	
R580	5057478000	680 ohm	½W
R581	5183100000	5.6 k ohm	
R582	5183076000	560 ohm	
R583	5183098000	4.7 k ohm	
R584	5057478000	680 ohm	½W
R585	5183108000	12 k ohm	
R586	5183100000	5.6 k ohm	
R587	5183076000	560 ohm	
R588, R589	5183114000	22 k ohm	
R590, R591	5183100000	5.6 k ohm	
R592	5183044000	10 ohm	
R593	5183076000	560 ohm	
R594	5183108000	12 k ohm	
R595	5183106000	10 k ohm	
R596	5183100000	5.6 k ohm	
R597	5183092000	2.7 k ohm	

REF. NO.	PARTS NO.	DESCRIPTION	
R598	5183110000	15 k ohm	
R599	5183100000	5.6 k ohm	
R600	5183118000	33 k ohm	
R601	5183100000	5.6 k ohm	
R602	5183082000	1 k ohm	
R603	5057478000	680 ohm	½W
R604	5183076000	560 ohm	
R605, R606	5183114000	22 k ohm	
R607, R608	5183100000	5.6 k ohm	
R609	5183034000	10 ohm	
R610	5183076000	560 ohm	
R611 ~ R613	5183080000	820 ohm	
R614	5183098000	4.7 k ohm	
R615, R616	5183106000	10 k ohm	
	CAPACITORS		
C501 ~ C509	5054204000	Ceramic	0.01 mfd 50V
C510, C511	5054878500	Mylar	0.001 mfd 50V 5%
C512	5055453000	Elec.	4.7 mfd 25V
C513	5054654100	Dip. Tant.	4.7 mfd 16V
C514	5054802000	Mylar	0.01 mfd 50V 10%
C515	5055420000	Elec.	100 mfd 16V
C516	5054656100	Dip. Tant.	10 mfd 16V
C517	5054658100	Dip. Tant.	22 mfd 16V
C519	5054802000	Mylar	0.01 mfd 50V 10%
C520	5055405000	Elec.	10 mfd 16V
C521 ~ C523	5054969000	Elec.	4.7 mfd 25V(KU)
C524	5054654100	Dip. Tant.	4.7 mfd 16V
	MISCELLANEOUS		
	5147041000	Socket, LSI; 24P	
J501	5122309100	Connector, Plug; 12P (RED)	
J502	5122193000	Connector, Plug; 12P (BLK)	
J503	5122134000	Connector, Plug; 10P (WHT)	

CONNECTING PCB A ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200001000	PCB Assy
	5167706100	PCB
	TRANSISTORS	
Q621 ~ Q623	5145091000	2SC945AK
	DIODE	
D621	5143118000	1S2473HJ
	CARBON RESISTORS	
	All resistors are rated ±5% tolerance and ¼ watt.	
R621	5183106000	10 k ohm
R622	5183106000	10 k ohm
R623	5183082000	1 k ohm
R624	5183088000	1.8 k ohm
R625	5183130000	100 k ohm
	CAPACITOR	
C621	5170077000	Elec. 10 mfd 16V(LR)
	MISCELLANEOUS	
J621	5122338000	Connector, 18P

CONNECTING PCB B ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5168707100	PCB Assy
	5167707000	PCB
Q631	5145082000	Transistor, 2SC2060Q
D631 ~ D635	5143089000	Diode, W03C
R631	5183114000	Resistor, Carbon; 22 k ohm ¼W 5%
R632	5183106000	Resistor, Carbon; 10 k ohm ¼W 5%
K631	5061139000	Relay, Sub-miniature; LC1-N 12V

REEL MOTOR CONTROL ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5168705100	PCB Assy
	5167705100	PCB
	TRANSISTORS	
Q651 ~ Q653	5042537000	2SA634L
Q654, Q655	5145091000	2SC945AK
Q656	5042537000	2SA634L
Q657	5145091000	2SC945AK
Q658	5042537000	2SA634L
Q659	5042553000	2SA733P
Q660	5145087000	2SD313E
Q661	5042553000	2SA733P
Q662, Q663	5145091000	2SC945AK
	DIODES	
D651 ~ D661	5133118000	1S2473HJ
D662	5143089000	W03C
D663 ~ D669	5143118000	1S2473HJ
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R653	5183092000	2.7 k ohm
R654	5183074000	470 ohm
R655, R656	5183086000	1.5 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R657	5180620000	Wire Wound, 2.7 ohm 2W
R658	5183066000	220 ohm
R659	5183074000	470 ohm
R660	5183062000	150 ohm
R661	5183114000	22 k ohm
R662	5183100000	5.6 k ohm
R663	5183074000	470 ohm
R664	5183106000	10 k ohm
R665	5183114000	22 k ohm
R666	5183100000	5.6 k ohm
R667	5183074000	470 ohm
R668	5183106000	10 k ohm
R669	5183082000	1 k ohm
R670	5183114000	22 k ohm
R671	5183106000	10 k ohm
R672	5183068000	270 ohm
R673	5183106000	10 k ohm
R674	5180034000	10 ohm ½W
R675	5183114000	22 k ohm
R676	5183100000	5.6 k ohm
R677	5183096000	3.9 k ohm
R678	5183100000	5.6 k ohm
R679	5183096000	3.9 k ohm
R680	5183100000	5.6 k ohm
R681	5183068000	270 ohm
R682, R683	5180634000	Wire Wound, 10 ohm 2W
R684, R685	5183114000	22 k ohm

CAPACITORS

C651	5054204000	Ceramic	0.01 mfd	50V
C652	5054651100	Dip. Tant.	33 mfd	10V
C653	5054656100	Elec.	10 mfd	16V
C654, C655	5054204000	Ceramic	0.01 mfd	50V

VARIABLE RESISTORS

R651, R652	5053614000	Semi-fixed, 330 ohm - B

MISCELLANEOUS

J651	5122153000	Connector, Plug; 10P

LEVER SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200000600	PCB Assy
	5167702100	PCB

DIODES

D701	5143118000	1S2473HJ
D702	5042550000	1S2473

CARBON RESISTORS

All resistors are rated ±5% tolerance and ¼ watt.

R701, R702	5183124000	56 k ohm
R703, R704	5183108000	12 k ohm
R705, R706	5183084000	1.2 k ohm
R707, R708	5183082000	1 k ohm

SWITCHES

S701, S702	5132042000	Lever, DP3T
S703	5132043000	Lever, 4P3T
S704 ~ S706	5132041000	Lever, DP3T

MISCELLANEOUS

P702	5122147000	Connector, 4P (WHT)
P703	5122151000	Connector, 8P (WHT)
P704	5122204000	Connector, 4P (BLK)
P705	5122126000	Connector, 2P (WHT)
P706	5122128000	Connector, 4P (WHT)
P707	5122129000	Connector, 5P (WHT)

MIC AMP PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200005000	PCB Assy
	5167696000	PCB

TRANSISTORS

Q701, Q702	5042495000	2SC1222E
Q703, Q704	5145038000	2SA750E

CARBON RESISTORS

All resistors are rated ±5% tolerance and ¼ watt.

R709, R710	5183130000 100 k ohm
R711, R712	5183082000 1 k ohm
R713, R714	5183122000 47 k ohm
R715, R716	5183130000 100 k ohm
R717, R718	5183100000 5.6 k ohm
R719, R720	5183066000 220 ohm
R721, R722	5183118000 33 k ohm
R723, R724	5183098000 4.7 k ohm
R725, R726	5183082000 1 k ohm
R727, R728	5183082000 1 k ohm
R729, R730	5183082000 1 k ohm
R731, R732	5183130000 100 k ohm

CAPACITORS

C703, C704	5155454000	Elec.	1 mfd	50 V
C705, C706	5055401000	Elec.	47 mfd	16 V
C707, C708	5055401000	Elec.	47 mfd	16 V
C709, C710	5054878000	Mylar	0.001 mfd	50 V
C711, C712	5055478000	Elec.	33 mfd	10 V
C713, C714	5054742000	Dip. Mica	47 pfd	50 V
C715, C716	5055942000	Elec.	1 mfd	50 V(B.P.)
C719, C720	5054745000	Dip. Mica	220 pfd	50 V

MISCELLANEOUS

P701	5122133000	Connector, Plug; 9P
P711	5122127000	Connector, Plug; 3P

MOTHER PCB A ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5168703100	PCB Assy
	5167703000	PCB
	TRANSISTORS	
Q801 ~ Q820	5145103000	FET, 2SK68AM
	DIODES	
D801 ~ D824	5143118000	1S2473HJ
D836	5143118000	1S2473HJ
D843, D844	5143118000	1S2473HJ
	CARBON RESISTORS	
	All resistors are rated ±5% tolerance and ¼ watt.	
R801 ~ R804	5057322000	47 k ohm
R805, R806	5057326000	68 k ohm
R809, R810	5057282000	1 k ohm
R811 ~ R817	5057330000	100 k ohm
	VARIABLE RESISTORS	
R807, R808	5150096000	Semi-fixed, 100 k ohm - B
	MISCELLANEOUS	
P801	5122360000	Connector, Plug; 8P
P802	5122362000	Connector, Plug; 10P
P803	5122360000	Connector, Plug; 8P
P804, P805	5122362000	Connector, Plug; 10P
P806	5122360000	Connector, Plug; 8P
P807, P808	5122362000	Connector, Plug; 10P
P809	5122360000	Connector, Plug; 8P
P810	5122362000	Connector, Plug; 10P
P811	5122360000	Connector, Plug; 8P
P812	5122363000	Connector, Plug; 11P
P813	5122138000	Connector, Plug; 14P
P814	5122129000	Connector, Plug; 5P
P815	5122128000	Connector, Plug; 4P
P816	5122136000	Connector, Plug; 12P
P817	5122129000	Connector, Plug; 5P
P818	5122146000	Connector, Plug; 3P

OSC PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200000500	PCB Assy
	5167694100	PCB
	TRANSISTORS	
Q821 ~ Q825	5145091000	2SC945AK
Q826	5042553000	2SA733P
Q827	5145091000	2SC945AK
Q828	5042553000	2SA733P
Q829	5145091000	2SA945AK
Q830	5145087000	2SD313E
	5042527000	2SD288K
Q831, Q832	5145091000	2SC945AK
Q833	5145082000	2SC2060(Q)
Q835, Q836	5042549000	2SC1636-1
	5145086000	2SC1636-2
	DIODES	
D825	5042517000	1S2473VE
D826	5042554000	Zener, RD6.2EB 3%
D827 ~ D836	5042517000	1S2473VE
D838	5042554000	Zener, RD6.2EB 3%
D840 ~ D842	5143089000	W03C
	CARBON RESISTORS	
	All resistors are rated ±5% tolerance and ¼ watt.	
R821	5057116000	27 k ohm
R822	5057100000	5.6 k ohm
R823	5057094000	3.3 k ohm
R824	5057114000	22 k ohm
R825	5057100000	5.6 k ohm
R826	5057094000	3.3 k ohm
R827	5057058000	100 ohm
R828	5057116000	27 k ohm
R829	5057058000	100 ohm
R830	5057094000	3.3 k ohm
R831	5057116000	27 k ohm
R832	5057100000	5.6 k ohm
R833	5057094000	3.3 k ohm
R834	5057082000	1 k ohm
R835	5057114000	22 k ohm
R836	5057100000	5.6 k ohm
R837	5057090000	2.2 k ohm
R838	5057122000	47 k ohm
R839	5057114000	22 k ohm
R840	5057090000	2.2 k ohm
R841	5057116000	27 k ohm
R842	5057100000	5.6 k ohm
R843	5057102000	6.8 k ohm
R844 ~ R846	5057090000	2.2 k ohm
R847	5057086000	1.5 k ohm
R850	5057106000	10 k ohm
R851	5057132000	120 k ohm
R854	5057074000	470 ohm
R855	5057104000	8.2 k ohm
R856	5057114000	22 k ohm
R857	5057010000	1 ohm
R871, R872	5057068000	270 ohm
R873, R874	5057100000	5.6 k ohm
R875, R876	5057154000	1 M ohm
R877 ~ R879	5057038000	15 ohm
	CAPACITORS	
C801	5054977000	Elec. 10 mfd 16V
C802	5054968000	Elec. 3.3 mfd 25V
C803	5054966000	Elec. 1 mfd 25V

REF. NO.	PARTS NO.	DESCRIPTION		
C804	5055463000	Elec.	100 mfd	35V
C805	5054802000	Mylar	0.01 mfd	50V
C806	5055404000	Elec.	10 mfd	25V
C807	5054978000	Elec.	22 mfd	16V(KU)
C809, C810	5054756000	Dip. Mica	470 pfd	50V
C811, C812	5054344000	Dip. Mica	820 pfd	50V
C813, C814	5055439000	Elec.	220 mfd	16V
C815, C816	5054230000	Ceramic	0.047 mfd	50V
C817, C818	5054758000	Dip. Mica	82 pfd	50V
	VARIABLE RESISTORS			
R849	5150153000	Semi-fixed, 5 k ohm - B		
R861 ~ R866	5053631000	Semi-fixed, 220 k ohm - B		
R867, R868	5150157000	Semi-fixed, 100 k ohm - B		
R869, R870	5150156000	Semi-fixed, 50 k ohm - B		
	RELAYS			
K801 ~ K803	5061137000	LAB2L, DC12V		
	COILS			
L801, L802	5160044000	Trap, 3 mH		
	MISCELLANEOUS			
U801	5040106000	Bias Oscillator Unit, 100 kHz		
U802	5040085000	P.P.M. Drive Unit		
J801	5122379000	Connector, 8P		
J802	5122382000	Connector, 11P		
P881	5122146000	Connector, 3P		
P882	5122149000	Connector, 6P (WHT)		
P883	5122206000	Connector, 6P (BLK)		
	5553132000	Heat Sink		
TP1 ~ TP6	5724042000	Pin, F3 Type		
	5553248000	Shield Paper, B		
	5534878000	Push Rivet, B (2 used)		
		Washer, Fiber; ϕ3.5 x ϕ8 x t0.5		

OUTPUT VR PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5168697100	PCB Assy
	5167697000	PCB
R891, R892	5150224000	Var. Res., 20 k ohm - A x 2
R893	5183116000	Resistor, Carbon; 27 k ohm ¼W 5%
R894	5183106000	Resistor, Carbon; 10 k ohm ¼W 5%
R896	5150157000	Var. Res., Semi-fixed; 100 k ohm-B

POWER SUPPLY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200000800	PCB Assy
	5167695100	PCB
	TRANSISTORS	
Q901	5145087000	2SD317E
Q902, Q903	5145091000	2SC945AK
Q904	5145087000	2SD317E
Q905, Q906	5145091000	2SC945AK
Q907	5145087000	2SD317E
Q908, Q909	5145091000	2SC945AK
Q910	5145087000	2SD317E
Q911, Q912	5145091000	2SC945AK
Q913, Q914	5042553000	2SA733P
Q915	5042537000	2SA634L
Q916	5145038000	2SA750E
	DIODES	
D901 ~ D905	5143089000	W03C
D906	5042554000	Zener, RD6.2EB 3%
D907	5143089000	W03C
D908	5042554000	Zener, RD6.2EB 3%
D909 ~ D912	5143017000	U05E
D913	5143089000	W03C
D914	5042554000	Zener, RD6.3EB 3%
D915 ~ D918	5143089000	W03C
D919	5042554000	Zener, RD6.3EB 3%
D920	5042517000	1S2473VE
D921	5143089000	W03C
D922, D923	5042517000	1S2473VE

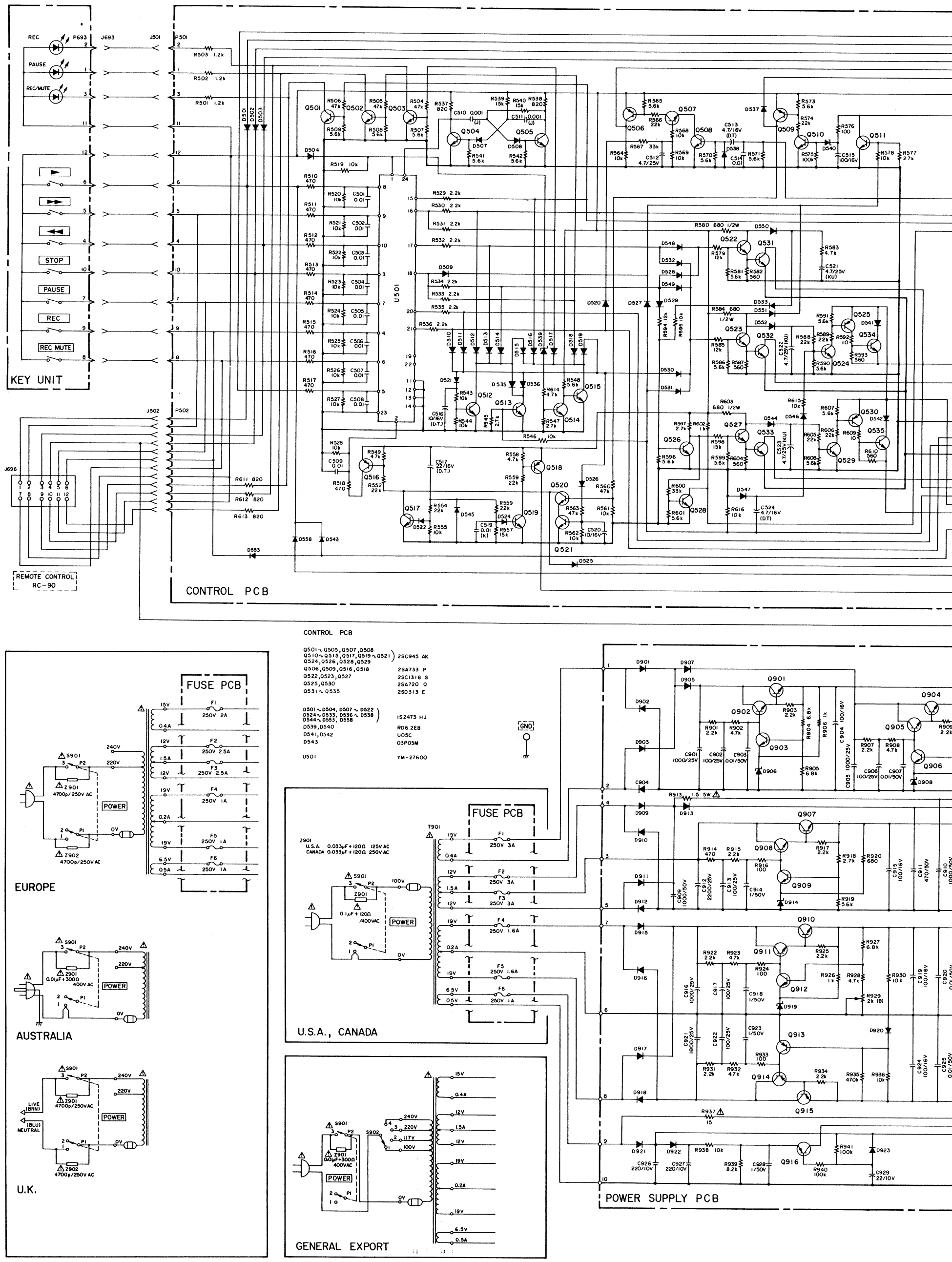
RESISTORS

All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.

R901	5057090000	2.2 k ohm
R902	5057098000	4.7 k ohm
R903	5057090000	2.2 k ohm
R904, R905	5057102000	6.8 k ohm
R906	5057082000	1 k ohm
R907	5057090000	2.2 k ohm
R908	5057098000	4.7 k ohm
R909	5057090000	2.2 k ohm
R910, R911	5057102000	6.8 k ohm
R912	5057082000	1 k ohm
R913	⚠5052058000	Cement, 1.5 ohm 5W
R914	5057074000	470 ohm
R915	5057090000	2.2 k ohm
R916	5057058000	100 ohm
R917	5057090000	2.2 k ohm
R918	5057092000	2.7 k ohm
R919	5057100000	5.6 k ohm
R920	5057078000	680 ohm
R921	5180300000	5.6 k ohm ½W
R922	5057090000	2.2 ohm
R923	5057098000	4.7 k ohm
R924	5057058000	100 ohm
R925	5057090000	2.2 k ohm
R926	5057082000	1 k ohm
R927	5057102000	6.8 k ohm
R928	5057098000	4.7 k ohm

REF. NO.	PARTS NO.	DESCRIPTION		
R930	5057106000	10 k ohm		
R931	5057090000	2.2 k ohm		
R932	5057098000	4.7 k ohm		
R933	5057058000	100 ohm		
R934	5057090000	2.2 k ohm		
R935	5057146000	470 k ohm		
R936	5057106000	10 k ohm		
R937	⚠ 5181828000	15 ohm	Non Flammable	
R938	5057106000	10 k ohm		
R939	5057104000	8.2 k ohm		
R940, R941	5057130000	100 k ohm		
	CAPACITORS			
C901	5055558000	Elec.	1000 mfd	25V
C902	5055417000	Elec.	100 mfd	25V
C903	5054802000	Mylar	0.01 mfd	50V 10%
C904	5055420000	Elec.	100 mfd	16V
C905	5055558000	Elec.	1000 mfd	25V
C906	5055417000	Elec.	100 mfd	25V
C907	5054802000	Mylar	0.01 mfd	50V
C908	5055420000	Elec.	100 mfd	16V
C909, C910	5055585000	Elec.	1000 mfd	50V
C911	5055584000	Elec.	470 mfd	50V
C912	5055714000	Elec.	2200 mfd	25V
C913	5055417000	Elec.	100 mfd	25V
C914	5055454000	Elec.	1 mfd	50V
C915	5055420000	Elec.	100 mfd	16V
C916	5055558000	Elec.	1000 mfd	25V
C917	5055417000	Elec.	100 mfd	25V
C918	5055454000	Elec.	1 mfd	50V
C919	5055420000	Elec.	100 mfd	16V
C920	5054802000	Mylar	0.01 mfd	50V 10%
C921	5055558000	Elec.	1000 mfd	25V
C922	5055417000	Elec.	100 mfd	25V
C923	5055454000	Elec.	1 mfd	50V
C924	5055420000	Elec.	100 mfd	16V
C925	5054802000	Mylar	0.01 mfd	50V 10%
C926, C927	5055491000	Elec.	220 mfd	10V
C928	5055454000	Elec.	1 mfd	50V
C929	5055472000	Elec.	22 mfd	10V
	VARIABLE RESISTOR			
R929	5150152000	Semi-fixed, 2 k ohm - B		
	MISCELLANEOUS			
P901	5122138000	Connector, Plug; 14P		
P902	5122324000	Connector, Plug; 9P		
	5033295000	Tube, Insulating		
	5033291000	Sheet, Insulating		

TEAC SCHEMATIC DIAGRAM (TAPE TRANSPORT) C-1 MKII

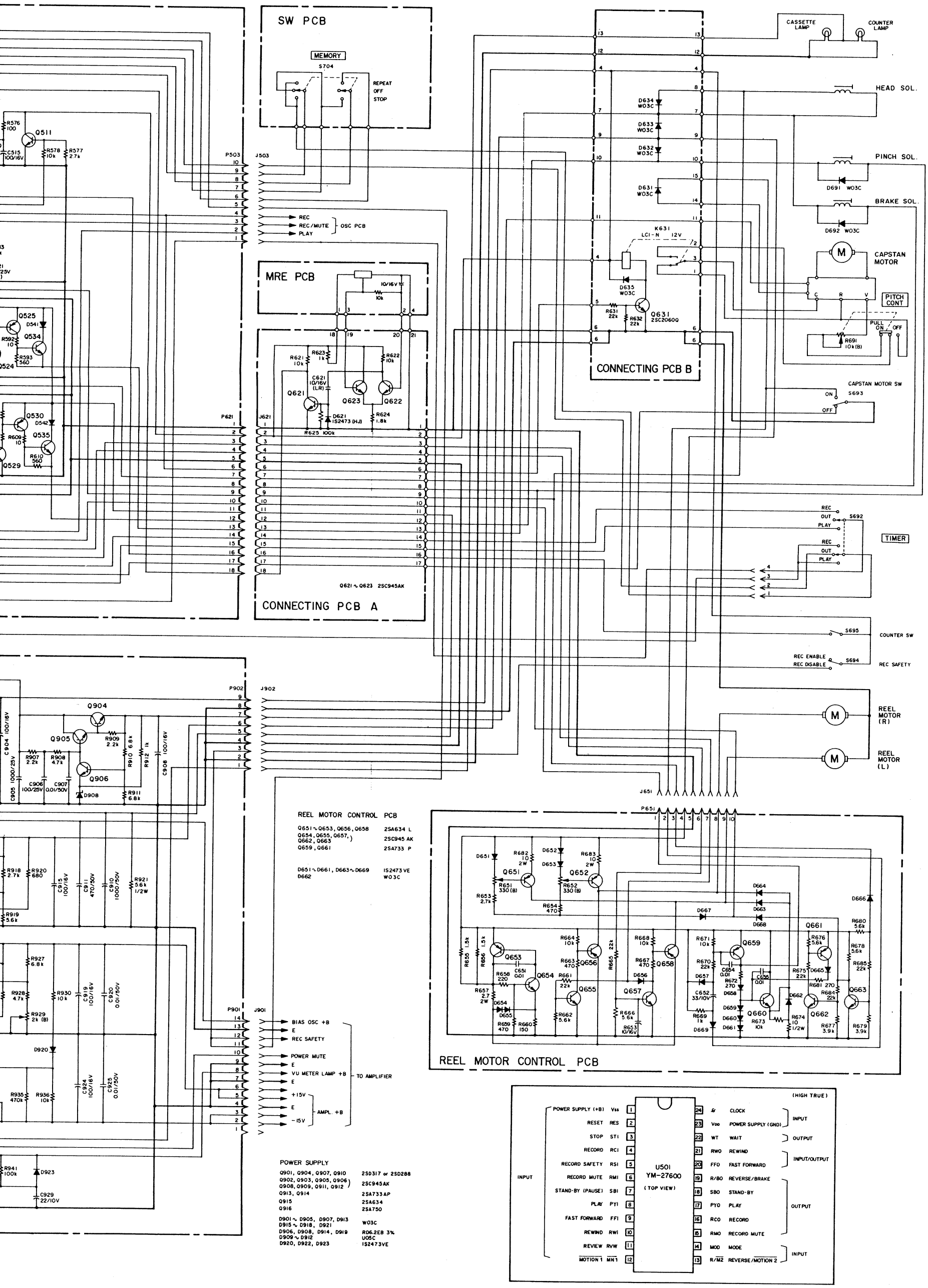


CONTROL PCB

Q501∼Q505, Q507, Q508 Q510∼Q513, Q517, Q519∼Q521 Q524, Q526, Q528, Q529	2SC945 AK
Q506, Q509, Q516, Q518	2SA733 P
Q522, Q523, Q527	2SC1318 S
Q525, Q530	2SA720 Q
Q531∼Q535	2SD313 E
D501∼D504, D507∼D522 D524∼D533, D536∼D538 D544∼D553, D558	1S2473 HJ
D539, D540	RD6.2EB
D541, D542	U05C
D543	03P05M
U501	YM-27600

NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p = PICOFARADS).



REEL MOTOR CONTROL PCB

Q651 ~ Q653, Q656, Q658	2SA634 L
Q654, Q655, Q657, Q662, Q663	2SC945 AK
Q659, Q661	2SA733 P
D651 ~ D661, D663 ~ D669	IS2473 VE
D662	W03C

POWER SUPPLY

Q901, Q904, Q907, Q910	2SD317 or 2SD288
Q902, Q903, Q905, Q906, Q908, Q909, Q911, Q912	2SC945AK
Q913, Q914	2SA733AP
Q915	2SA634
Q916	2SA750
D901 ~ D905, D907, D913	W03C
D915 ~ D918, D921	
D906, D908, D914, D919	RD6.2E8 3%
D909 ~ D912	U05C
D920, D922, D923	IS2473VE

C-1 MKII

Stereo Cassette Deck

TEAC SCHEMATIC DIAGRAM (AMPLIFIER) C-1 MKII

1 2 3 4 5

A B C D E F G H

PLAYBACK AMP. PCB

Q101, Q102	2SA899F	Q113	2SA733P
Q103	2SC1222E	Q114	2SC536G
Q104	2SK68AM	Q115	2SA750E
Q105	2SC1222E	Q116, Q117	2SK68AM
Q106	2SC1384R	Q118	2SA750E
Q107	2SA684R	Q119	2SC1636-2
Q108	2SC1636-2	Q120, Q121	2SA750E
Q109, Q110	2SC536G	Q122	2SC1222E
Q111	2SK300B	Q123	2SC1384R
Q112	2SC536G	Q124	2SA684R
U101	JRC4558D-F		

PLAYBACK HEAD

DOLBY DECODER

EUROPE, U.K. only

EXT (DBX UNIT) RX-8 CONTROL SIGNAL

LINE IN

MIC

SWITCH PCB

INPUT

BIAS

EQ

MONITOR

NR SYSTEM

LED PCB

TO DECODER

TO ENCODER

OUTPUT VR PCB

RECORD

LEFT

RIGHT

REC. AMP. PCB

U301, U302 NJM4558DF

Q301, Q302	2SC536G
Q303	2SK300B
Q304	2SC536G
Q305	2SA733P
Q306	2SC536G
Q308~Q315	2SC945AK

DOLBY ENCODER

CX-8 REF.

CX-8 VAR.

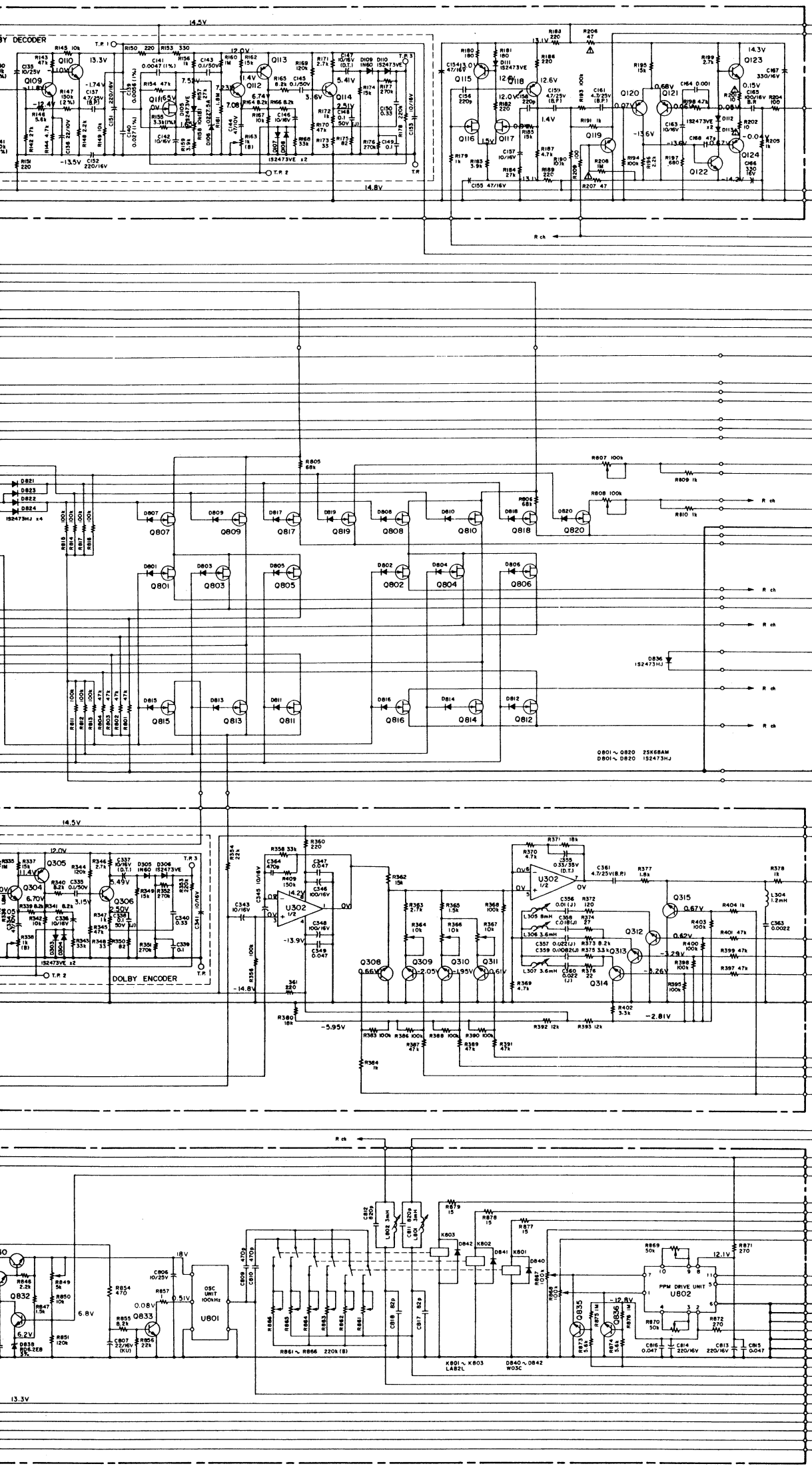
MIC AMP. PCB

Q701, Q702 2SC1222E

Q703, Q704 2SA750E

OSC. PCB

Q821~Q825	2SC945AK	Q830	2SD288K
Q826	2SA733P	Q831, Q832	2SC945AK
Q827	2SC945AK	Q833	2SC1741
Q828	2SA733P	Q834	(NOT USED)
Q829	2SC945AK	Q835, Q836	2SC1636-2



NOTES

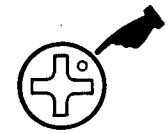
1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p = PICOFARADS).
3. SCHEMATIC DIAGRAM SHOWN FOR LEFT CHANNEL EXCEPT FOR SOME OF THE COMPONENTS.
4. DC VOLTAGES WERE MEASURED DURING RECORD PAUSE MODE UNLESS OTHERWISE NOTED.

C-1 MKII

Stereo Cassette Deck

ASSEMBLING HARDWARE CODING LIST

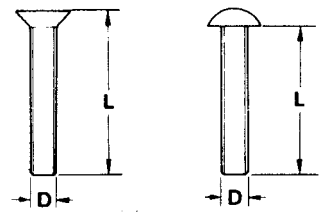
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M 3 x 6

- B — Nomenclature
- M — Metric System
- 3 — Diameter in mm (D) *
- 6 — Length in mm (L)



* Inner dia. for washers and nuts

	Code	Name	Type
MACHINE SCREW	R	Round Head Screw	
	P	Pan Head Screw	
	T	Stove Head Screw (Truss)	
	B	Binding Head Screw	
	F	Flat Countersunk Head Screw	
	O	Oval Countersunk Head Screw	
WOOD SCREW	RW	Round Head Wood Screw	
TAPTITE SCREW	PTT	Pan Head Taptite Screw	
	WTT	Washer Head Taptite Screw	
SEMS SCREW	BSA	Binding Head SEMS Screw(A Type)	
	BSB	Binding Head SEMS Screw(B Type)	
	BSF	Binding Head SEMS Screw(F Type)	
	PSA	Pan Head SEMS Screw(A Type)	
	PSB	Pan Head SEMS Screw(B Type)	

	Code	Name	Type
TAPPING SCREW	BTA	Binding Head Tapping Screw(A Type)	
	BTB	Binding Head Tapping Screw(B Type)	
	RTA	Round Head Tapping Screw(A Type)	
	RTB	Round Head Tapping Screw(B Type)	
SETSCREW	SF	Hex Socket Setscrew(Flat Point)	
	SC	Hex Socket Setscrew(Cup Point)	
	SS	Slotted Socket Setscrew(Flat Point)	
WASHER	E	E-Ring (Retaining Washer)	
	W	Flat Washer (Plain)	
	SW	Lock Washer (Spring)	
	LWI	Lock Washer (Internal Teeth)	
	LWE	Lock Washer (External Teeth)	
	TW	Trim Washer (Countersunk)	
NUT	N	Hex Nut	

C-1 MKII

TEAC®

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